RTS® Intercom Series

Innovating the Future of Communications

Product Catalog 2008

RTS®

Table of Contents

Dear User 3

History of RTS® 4

Worldwide Connectivity 6

RTS® Digital Matrix Intercom 8

Digital Matrix Frames & Components 8

Intercom Matrices 8

Interface Cards 10

VoIP Devices 12

Software 14

Keypanels 16

KP 32 CLD Color Keypanel Series 16

KP-32 Classic Keypanel Series 18

KP x12 12-Position Keypanel Series 20

KP-12 Modular Keypanel Series 22

Value Keypanel Series 24

RKP-4 Wireless Keypanel 26

Trunking & Peripherals 27

Trunkmaster Series 27

System Peripherals 28

IFB System Peripherals 32

RTS® Two-Wire Intercom 33

Main Components 33

Master Stations 33

User Stations 34

Beltpacks 36

Power Supplies 37

Accessories 38

Intrinsically-Safe Security Intercom System 41

Intercom Headsets 42

Dear User

Dear User:

At Telex Communications, Inc. we strive to lead the globe with our RTS® Intercom Systems by providing complete communication solutions that connect people when it matters most. For the last 30+ years, RTS® has been the leading pioneer in intercom communications. We have made unprecedented advances in the industry beginning with the CS-9000, then with our Digital Matrix and Emmy Award-winning Two-Wire systems, and continuing with the ADAM and Cronus®. Our dedicated team of innovative design engineers, reliable sales professionals, and intrepid technicians consistently design, specify, and implement systems that exceed the most demanding requirements while ensuring a sound investment for the future.

Now in the 21st century, we offer the latest-generation VoIP solutions with our RVON (RTS® Voice over Network) series. This technology gives you, the user, greater control and flexibility over your system than ever before. RTS® RVON opens a new world of connected possibilities of which we are proud to be a part, and we invite you to join us. It gives me great pleasure to welcome you to the future of intercom systems.

The following is our product catalog featuring the latest innovations from RTS®. For those more interested in learning the principles of intercom technology, we offer the Handbook of Intercom Systems Engineering, which is freely available on our website at: rtsintercoms.com/handbook

Staying true to our principle of backward compatibility, the ground-breaking advances featured in this catalog, such as the CLD series color keypanels and RVON VoIP technology, can fully integrate with existing systems. This ensures that your system can remain state-of-the-art, putting the latest RTS® technology to work for you for years to come.

Sincerely,

Christian Latzelsberger

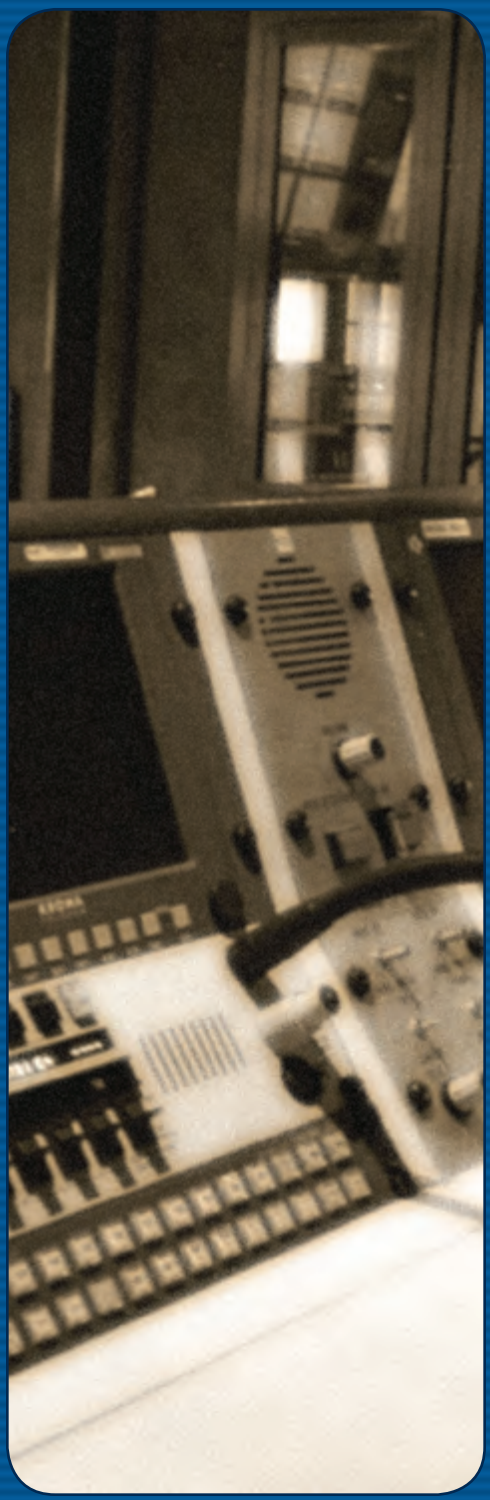
Christian Latzelsberger

Senior Product Manager

RTS® Intercoms Worldwide

History of RTS®

Mission Statement
It is our goal to be the recognized global leader in delivering comprehensive communications systems and solutions to entertainment and industry.



In the early days of television production, intercommunication among the crew was accomplished using carbon microphone conference line intercom systems. These systems used telephone company-type equipment and telephone company technology. This technology was not intended to conference more than two stations, and television production needed as many as 30 stations to conference together. As the number of stations ranged from ten upwards, the performance of the system was severely degraded. Some improvements were made over the years, but the fundamental system design problem was not addressed.

In 1975, the founders of RTS® took a systems approach to solve the fundamental system design problem. After six months of intensive work, the problem was solved, and products were developed to utilize the solution. This first solution was called the "Two-Wire Intercom System". The company formed then, to solve the problem and to market the solution, was—and still is RTS® Systems.

In 1979, Compact Video Systems bought RTS® Systems, Inc. Compact Video Systems was a television production and manufacturing company and is credited with many successful television productions. The acquisition spawned a period of new product development. During this interval, foundations were laid for further growth and a dealer network was developed. Accounting, manufacturing, engineering, and documentation systems were put into place to support rapid growth and improved product and service quality.

During the period of 1979 to 1989, RTS® Systems' products had become a standard for the television industry. The major television networks incorporated RTS® Systems products. In addition, RTS® Systems products became the standard for mobile units.

January 1976 Advertisement

THE SUPER SYSTEM

As a professional, you know how fatiguing it is trying to communicate through a haze of hiss, pop, and sizzle common to other "intercoms."

RTS SYSTEMS introduces the first significant improvement in television intercom systems—incorporating unique circuitry to provide a hi-fi intercom using just two wires for operation of up to fifty units. Other features include built-in mic level limiter, flashing signal lite, auxiliary audio input, powerful two watt headphone amp, beltpack with two channels standard, rackmount with three channels standard, and adjustable side tone.

The RTS SYSTEM is compatible with carbon or dynamic mic headsets, and is completely field serviceable and packaged to provide super reliability under the toughest conditions.

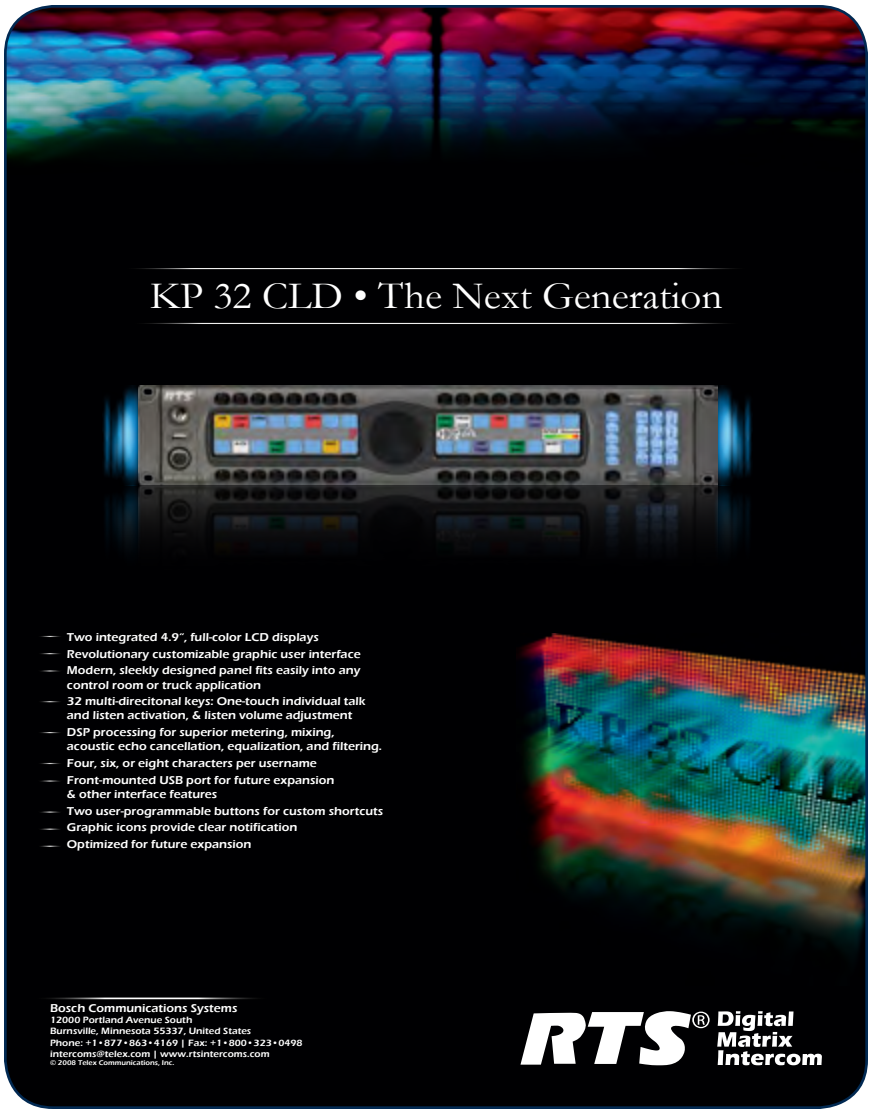
rts SYSTEMS

The RTS SYSTEMS two wire intercom system . . . in every way a precision hi-performance device designed to meet stringent requirements.

In 1989 Telex Communications, Inc. bought RTS® Systems and a new growth period began. This growth included improvements in manufacturing efficiency, a strengthened sales organization, and an advance in manufacturing technology (surface-mount circuitry, plastics molding and tooling resources). In 1989 RTS® won an Emmy award for Outstanding Achievement in Engineering Development in recognition of their engineering contribution and development of professional two-wire intercommunications systems for use in television production and broadcast operations.

In 1990, Telex® acquired the exclusive manufacturing rights to the McCurdy line of matrix intercoms to complement the series of party-line intercoms already manufactured by RTS®. In the 1940's, McCurdy Radio Industries of Canada began manufacturing intercom systems and in the mid 1970's introduced a solid-state intercom matrix called the 9100. Upon acquiring the line of matrix intercoms from McCurdy Radio, Telex® started to extend and improve its product portfolio. Since the RTS® brand name was well known in the broadcast market, the new digital matrix products were branded RTS®, as well.

In September 2006, Telex became a part of the Bosch Group. The acquisition brings the well-known Bosch quality standards to RTS® through streamlined and modernized processes, as well as a renewed commitment to research and development.



RTS® Digital Matrix Intercom

Worldwide Connectivity

RTS® is in the business of connecting people all over the world. Whether it is across the hall or across an ocean, RTS® provides the bridge in between to get your message heard clearly and reliably.

Cronus®
with RVON-C

ADAM
with RVON-16

Netv

RVON-I/O
Interface

GPIO-16
Relay Interface

Obsolete Product on VoIP via RVON-I/O

Analog RTS® Keypanels
Legacy McCurdy Keypanels
Analog Four-Wire

OR Matrices
Zeus™/Zeus II™

KP 32 CLD
with RVON

VoIP
Virtual Keypanel
on PC

KP-32 Classic
with RVON-1

work

KP 612 | KP 412 with RVON

DKP 612 | DKP 412
with RVON

ON AIR

External Device

RTS® Digital Matrix Intercom

Intercom Matrices

The RTS® family of digital intercom matrices is the most extensive, most widely used, and most "obsolescence-proof" line of intercoms in the world today. From the "top-of-the-line" ADAM matrix, available in sizes from 8 to 1,000+ users, to the original Zeus™ 24-port matrix, RTS® matrices are the standard for reliable, mission-critical communications in broadcast, military, industrial and entertainment applications.

ADAM

Advanced Digital Audio Matrix

Height	Width	Depth	Weight (Frame+2PSU's)	Color
12¼" (31.12 cm)	19" (48.26 cm)	20" (50.8 cm)	44.75 lbs (20.3 kg)	Grey

The updated high-end ADAM matrix supports 8 to 1000+ users per system; 272 ports possible in just a 7RU frame.

The RTS® ADAM matrix, now in its 3rd generation, is still compatible with existing intercom equipment. Compared to the original ADAM, it has improved power capacity, doubled channel capacity, and expanded connectivity and control options.

Utilizing a Time Division Multiplex (TDM) technique, the ADAM grows linearly as users are added; the system comes standard with newly-redesigned redundant high current power supplies, and the new redundant Ethernet master controllers, MCII-e, allowing for automatic changeover in the event of failure. The MCII-E master controller allows Ethernet connectivity between the ADAM intercom and a PC running AZedit programming software. It can support 32 simultaneous AZedit sessions via Ethernet and 3 sessions via serial.

ADAM is available with the widest variety of interface cards in the industry, which includes the AIO-16, AES-3, and RVON-16 VoIP interfaces. It also has a wide variety of cabling options, including RJ-11s, DB-9s, jack fields, and many others.

XCP

Matrix Breakout Panels

Breakout panels provide a convenient way of expanding the port capacity of ADAM and Cronus® intercom systems.

Panel	Frame	Back Card	Connectors
XCP-955	ADAM	Telco™	(25x) RJ-11
XCP-954-48	ADAM	Telco™	(25x) DB-9
XCP-32-DB9	ADAM & Cronus®	MDR	(32x) DB-9
XCP-16-DB9-T	ADAM & Cronus®	MDR	(16x) DB-9
XCP-48-RJ45	ADAM & Cronus®	MDR	(48x) RJ-45
XCP-48-Telco	ADAM & Cronus®	MDR	(48x) Telco™
XCP-40-DB9	ADAM	SCSI	(40x) DB-9
XCP-40-RJ12	ADAM	SCSI	(40x) RJ-12
XCP-24	ADAM	SCSI	(24x) Telco™
XCP-24-USOC	ADAM	SCSI	(24x) Telco™
XCP-ADAM-MC	ADAM	SCSI	(10x) DB-9

Cronus®

DSP Matrix Intercom

Height	Width	Depth	Weight (Frame+2PSU's)	Color
3½" (8.89 cm)	19" (48.26 cm)	13¼" (33.66 cm)	14.15 lbs (6.41 kg)	Grey

RTS® Cronus® intercom is a modular, 32-port digital matrix intercom in 2RU (rack units) that can hold up to four AIO analog or RVON-C VoIP cards with eight ports each. Based upon an advanced DSP architecture, Cronus® intercom has the ability to link up to four units into a single 128-port matrix. The Cronus can be preconfigured for fiber with a connection up to 9.3mi (15km), or coax for a connection up to 300' (91.4m). When connected as a single matrix, the individual Cronus® intercom controls remain autonomous and independent at each matrix for the highest reliability. The Cronus is available with an analog card, or the RVON-C VoIP card featured on page 11.

Zeus II™

Trunking-Capable Digital Matrix Intercom System

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	17" (43.18 cm)	10.72 lbs (4.86 kg)	Grey

You need the capabilities and programmability of a full-featured, top-of-the-line digital matrix intercom system along with redundant power supplies, but have limited space in which to add the equipment. You also need to be able to expand the intercom system as your communications needs grow.

The RTS® Zeus II™ matrix intercom system provides 24 channels of high-quality audio in a compact 2RU package with the added benefit of linking to other RTS® matrix intercoms via intelligent trunking.

Zeus™

Digital Matrix Intercom System

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	17" (43.18 cm)	10.14 lbs (4.6 kg)	Grey

The Zeus™ DSP matrix intercom system not only provides superior performance and reliability for all your communications needs, but can also function as the heart of a complete audio mixing/routing and control system for many facilities.

Interface Cards

The RTS® interface cards are the core of the modular digital matrix intercom concept. An array of features and connectivity options means you can customize your ADAM matrix to integrate seamlessly into your communications network. Each new generation provides expanded possibilities for your existing ADAM frame, solidifying its investment value for years to come. With features such as hot swap and SNMP support, the ADAM subassemblies ensure that you can scale your intercom system to fit your growing needs with peace of mind.

MCII-e

Ethernet Master Controller Card Kit for ADAM

The RTS® MCII-e system controller card is the latest generation controller for the ADAM intercom system. The Ethernet connectivity enables multiple AZedit sessions and remote peripherals such as the GPIO-16 (page 28). Adding Ethernet connectivity between the ADAM intercom and a PC running AZedit configuration software, the new controller can support up to 35 simultaneous AZedit sessions (32 using Ethernet and up to 3 using serial ports). Using a pair of MCII-e controller cards will provide full redundancy with seamless automatic changeover upon failure. The speed of Ethernet, combined with expanded memory, allows the card to fully support large matrices with reduced setup file download time. As with all ADAM intercom family products, the MCII-e card supports all standard, hot swappable, and configurable features through the AZedit configuration software. It is fully compatible with existing ADAM systems and cards, including AIO-8, AIO-16, AES- 3, and RVON VoIP interfaces. The MCII-e also supports SNMP, the IETF standard protocol for monitoring network-attached devices.

AIO-16

16-Port Analog I/O Card Kit for ADAM

Installed directly into the ADAM matrix intercom system, the AIO-16 card gives 16 ports of audio IN and OUT plus individual data drivers for each port installed in the system. This doubles the amount of audio ports available from its predecessor the AIO-8. In addition, the AIO-16 supports connections up 2.2mi (3.5km) per port. The AIO-16 is hot swappable, allowing the user to insert the card and begin using it instantaneously. The AIO-16 eliminates the need to manually set keypanel addresses by enabling automated unique addressing, which greatly reduces the setup time. Once inserted into the system, it uses its "smart card" capability to see the back card configuration and switches its keypanel communication protocol accordingly. To support the AIO-16, the ADAM frame must be equipped with the new high-current power supply.

AES-3

Digital Audio Interface Card Kit for ADAM

The AES-3 digital audio interface card expands the connectivity to the ADAM intercom by supporting AES-3 over coaxial cable. It supports four audio channels through eight AES-3 connections. The AES-3 card provides connectivity to any other third party AES-3 audio device. It supports all standard hot swappable and configurable features within the ADAM intercom family. This card supports incoming sample rates from 16 kHz to 108 kHz with 24-bit audio. Outputs are compatible with all AES-3 standards. Along with the RVON-16 VoIP card, the RTS® ADAM intercom systems natively support analog, AES-3 digital and VoIP signal formats.

TBX-Tribus

Triple-Bus Expander Card Kit for ADAM

A single TBX-Tribus fiber card can link up to four ADAM frames together and allow them to appear as one matrix system. This makes it possible to increase the number of available users on a system by transparently integrating additional frames. The ADAM frame must be equipped with a MCII-e master controller card, allowing the TBX-Tribus to link together multiple frames, allowing users to quickly connect multiple ADAM intercom systems. This functionality can be very useful in mobile production scenarios to tie systems together via fiber using the digital audio of the TBX-Tribus. In this scenario, the MCII-e master controllers are tied together via Ethernet connections. In a failure of the fiber or Ethernet link of one frame, the affected ADAM is automatically isolated as a fully functional 'Island' frame, and the remaining frame(s) function as a normal interconnected system. The TBX-Tribus works in both AIO-8 and AIO-16 frame environments with simple software settings in AZedit intercom software. The TBX-Tribus card is available only with fiber connection, allowing a range of up to 24.8 miles (40km) between ADAM frames. The TBX-Tribus surpasses the Dual Bus Expansion card with its superior channel capability, transmitting 256 audio channels rather than the 128 supported by the DBX.

DBX

Dual-Bus Expander Card Kit for ADAM

The DBX cards link multiple ADAM frames together and allow them to appear as one matrix in a given system. This makes it possible to increase the number of available users on a system by transparently integrating additional frames.

The DBX cards in all systems are wired such that if you could unplug the DBX cards with their port wiring intact and lay them out on the ground untangled, the DBX cards and the wiring connections would form a giant circle.

Cronus-AIO

8-Port Analog I/O Card Kit For Cronus®

Installed directly into the Cronus® matrix intercom system, the Cronus-AIO card gives 8 ports of audio IN and OUT for each card installed in the system. Includes one front card and one RJ-12 rear card.

VoIP Devices

The RTS® RVON (RTS® Voice Over Network) series allows the full integration of our intercom system into your existing data network. It also allows you to create an independent network for your RVON equipment. Our devices are fully IP-compliant with current VoIP standards. All RTS® RVON series devices can be monitored via SNMP. The RVON product family supports ancillary data control for use with RTS® Intelligent Trunking. These products enable Trunking over IP for local to worldwide connectivity.

RVON-16

16-Port VoIP Card Kit for ADAM

The RVON-16 is installed into the ADAM intercom frame and provides Voice over IP communications for the RTS® ADAM intercom product family. The RVON-16 is an integrated solution for connecting keypanels to the intercom matrix over standard IP networks by supporting 16 channels of audio IN and OUT, as well as data.

The RVON-16 is a hot swappable card which supports all configurable options through RTS®' RVONedit VoIP configuration software. The card is also configurable through RTS®' AZedit intercom configuration software. The RVON-16 also supports remote keypanels, audio connections between matrix frames via RVON 16, RVON-8, or RVON-I/O as well as virtual keypanels via VoIP. It also has two DB-9 serial connections for RS-232 or RS-485 pass-thru port connections. To support the RVON-16, the ADAM frame must be equipped with the new high-current power supply.

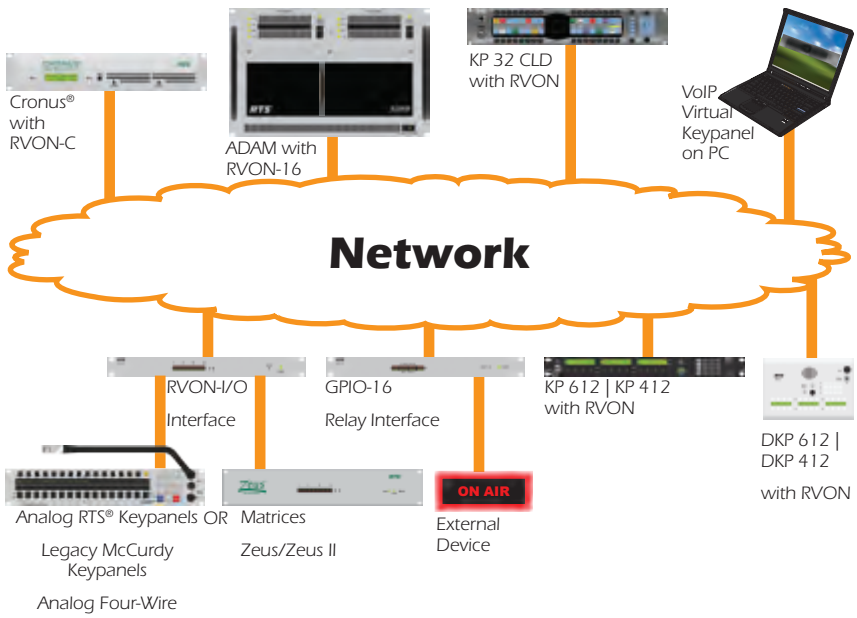
RVON-I/O

8-Port VoIP Analog Interface

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	19" (48.26 cm)	8" (20.32 cm)	3.7 lbs (1.67 kg)	Grey

The RVON-I/O converts analog audio and data to digital VoIP. By being able to convert analog audio and data systems to digital VoIP, the RVON-I/O expands the boundaries of digital audio to include analog. The RVON-I/O is a stand-alone 8-port VoIP interface for matrices, keypanels, four-wire devices, and trunking.

RTS® RVON Network Diagram Example



RVON-1

VoIP Interface for KP-32 Classic

Installed directly into KP-32 Classic, the RVON-1 provides Voice over IP (Internet Protocol) communications for the RTS® intercom family. The RVON-1 delivers an integrated solution for connecting keypanels to the intercom matrix over standard IP networks. The RVON-1 is not compatible with KP 32 CLD series keypanels.

RVON-C

8-Port VoIP Card Kit for Cronus®

The RVON-C Voice over IP card introduces all the VoIP functionality of the RVON-16 for ADAM, to the Cronus® intercom system. The RVON-C converts analog audio to digital VoIP audio. Installed directly into Cronus®, the RVON-C expands the connectivity to the Cronus® intercom system by supporting eight channels in and out. You can have up to four RVON-C cards in Cronus® at one time totaling 32 channels of VoIP audio plus data.

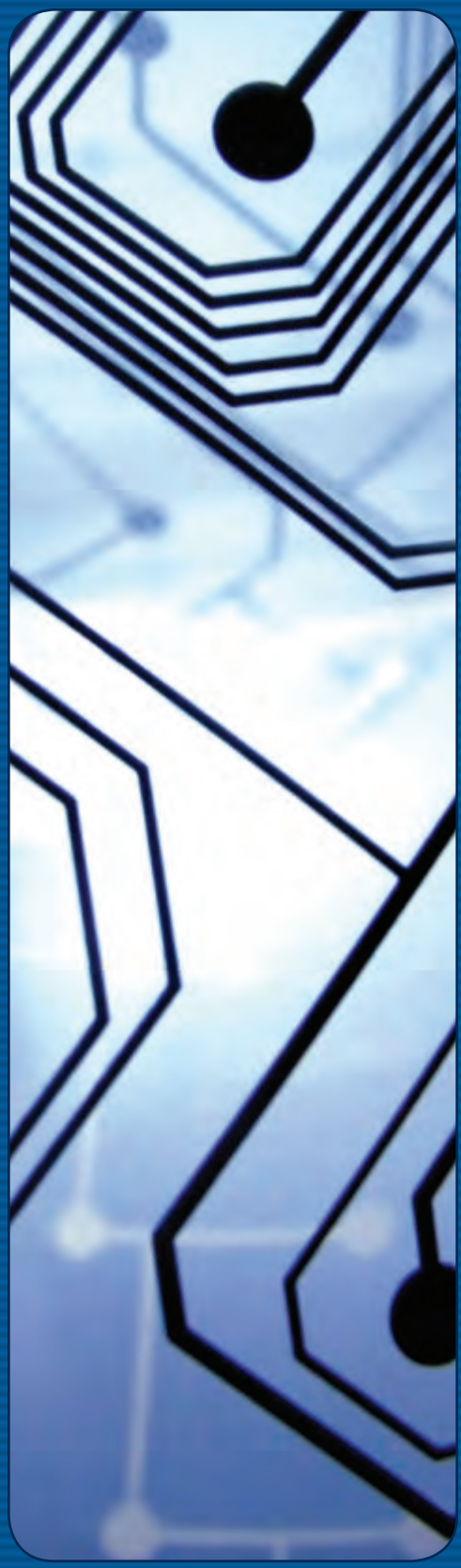
VKP

Virtual Keypanel

OS	Audio In/Out	Peripherals	Connections
Windows® 2000 or Windows® XP	Computer must have audio in/out capability	Microphone Speaker/Headset	Ethernet

The RTS® VoIP Virtual Keypanel (VKP) is a Windows®-based application that allows any user to have a fully functioning RTS® Digital Matrix Intercom user station on their PC. The Virtual Keypanel application connects via the PC's Ethernet connection to any path that can support standard IP protocols, including LAN, WAN, and VPN.

The RTS® virtual keypanel application is compatible with any RTS® Digital Matrix Intercom equipped with the RVON interface. The Virtual Keypanel brings a new level of enterprise-wide and remote access to your RTS® Digital Matrix Intercom system. The VKP requires that the PC have a static IP address.



RTS® Digital Matrix Intercom

Software

RTS® Software enables complete control over your intercom system from any standard Windows computer. Configure keypanels settings, assign user rights, even link matrices together that are thousands of miles away.

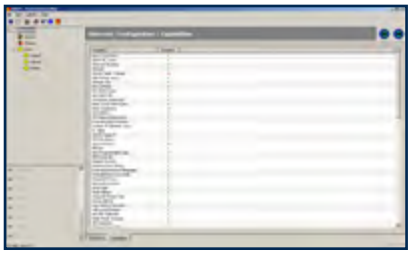
AZedit

RTS® Matrix Control Software

Intercom system configuration has never been easier with the advent of RTS®' AZedit Intercom System Software. AZedit is a Windows®-based, full-featured configuration software, providing online and offline configuration capabilities. It gives you the ability to manage multiple intercom systems, assign and reassign users to different ports, as well as dynamically add intercom hardware to your system setup without jumper changes, rewiring, or taking the system offline. AZedit has the capability to load pre-set configuration files, which means configurations saved to a disk or computer can be uploaded to the live application at anytime without interruption. AZedit can be used as a monitor tool to observe the status of features like gain & crosspoint settings, keypanel keys activated, and other aspects of the system. AZedit can run in multiple sessions using the MCII-e ADAM master controller card to allow for remote system configuration.

RestrictEdit

Access Management Software



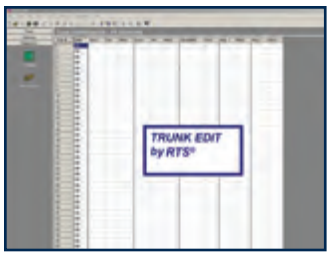
The Restrictions Editor is a tool to create restriction files for use with AZedit Intercom software. Restriction Files allow administrators to manage user access to resources and features. AZedit includes support for user restrictions by reading a text file (the restrictions file) and parsing out the set of resources and features available to each user.

RVONEdit

Configuration Software for RVON Devices

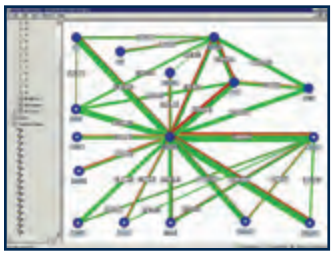
RVONedit is a Windows®-based GUI (graphical user interface) application for configuring and displaying RVON (VoIP) devices connected to your Matrix system. RVONedit is to the VoIP products as AZedit is to ADAM, Cronus®, and Zeus™. An enhanced version of RVONEdit is available which can configure multiple RVON devices simultaneously.

TES
TrunkEdit Software



TrunkEdit is the GUI interface for programming the TM-2000 or MTM-2000 trunking devices. The TrunkEdit program allows the user to set up all the necessary parameters required for trunking multiple intercom systems. Each intercom system can be configured to work together as a virtual integrated single intercom system while still maintaining each individual system's autonomy.

TSS
Trunk Supervisor Software

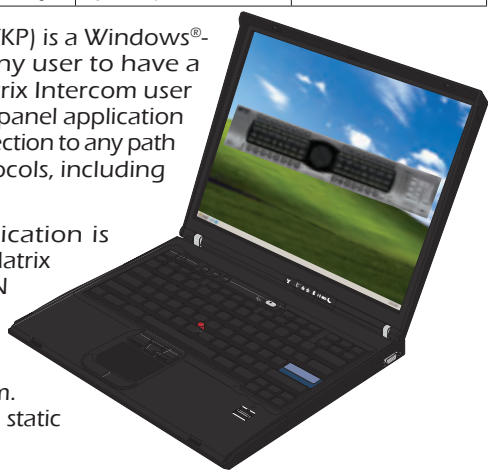


The Trunk Supervisor Software program is a trunking system management application. The program allows for real-time monitoring of trunk line status information. When used in combination with the Auto-TIMS III test set, it allows for fully automated testing of a trunked system. If a trunk line is found to be out of specification the trunk line can be pulled out of service until the issue is resolved. The program also has the capability of remote notification of user defined alarm events.

VKP
Virtual Keypanel

OS	Audio In/Out	Peripherals	Connections
Windows 2000 or Windows XP	Computer must have audio in/out capability	Microphone Speaker/Headset	Ethernet

The RTS® VoIP Virtual Keypanel (VKP) is a Windows®-based application that allows any user to have a fully functioning RTS® Digital Matrix Intercom user station on their PC. The Virtual Keypanel application connects via the PC's Ethernet connection to any path that can support standard IP protocols, including LAN, WAN, and VPN.



The RTS® virtual keypanel application is compatible with any RTS® Digital Matrix Intercom equipped with the RVON interface. The Virtual Keypanel brings a new level of enterprise-wide and remote access to your RTS® Digital Matrix Intercom system. The VKP requires that the PC have a static IP address.

RTS® Digital Matrix Intercom

KP 32 CLD
Color Keypanel Series

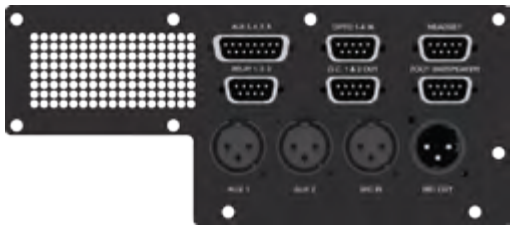
RTS® introduces the KP 32 CLD, the flagship product of a new generation of RTS® keypanels. The KP 32 CLD sports advanced features that take flexibility and ease-of-use to the next level. The KP 32 CLD features a revolutionary customizable graphic user interface that spans two integrated 4.9", full-color LCD displays. The KP 32 CLD's advanced functionality is wrapped in a sleek, ergonomic design with a contoured front panel that fits flush within a rackmount configuration.

KP 32 CLD
Color Display Keypanel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	3¼" (8.25 cm)	6.3 lbs (2.86 kg)	Grey/Black Duotone

The revolutionary KP 32 CLD from RTS® introduces several new features designed to enhance capability and ease of use. The intuitive graphic interface is housed inside two full-color 4.9" LCD displays. The front panel also features conveniences such as two user-programmable buttons, one-touch listen volume adjustment on each of the 32 new multifunction user keys, and a backlit keypad. In addition, the KP 32 CLD can be ordered with the new, more intuitive CLD key sequences, or the Classic key sequences. Like all RTS® products, the KP 32 CLD is designed with expansion in mind. The front-mounted USB port and modular rear panel allow for future upgrades that will keep the KP 32 CLD on the forefront of technology for years to come.

GPI 32
GPI Option Kit for KP 32 CLD



Provides six auxiliary inputs, three relays, four opto-isolator inputs, two open collector outputs, rear mic in & out, rear headset, footswitch, and rear speaker.

DKP 16 CLD
Color Display Desktop Keypanel

Height	Width	Depth	Color
3.2" (8.13 cm)	10.1" (25.65 cm)	9.2" (23.37 cm)	Grey/Black Duotone

The DKP 16 CLD is the desktop member of the CLD color keypanel family from RTS®. Like its rackmounted counterpart, the DKP 16 CLD is controlled using a ground-breaking full-color graphic interface. The desktop keypanel also sports innovative conveniences which are the new standard among the RTS® CLD keypanel family. A USB port, two user-programmable buttons, one-touch listen volume adjustment, and a backlit keypad are just some of the common features which set this keypanel family apart. The DKP 16 CLD is designed with a curvaceous housing and compact footprint that sits attractively in desktop configurations.

Features of the CLD Keypanel Series

Full-Color LCD Displays
The new color displays host a rich and intuitive graphic user interface that allows to indicate different keypanel functions in different colors.

Modern, Modular Design
Flush front panel is ergonomically designed to fit easily into any control room or truck application. The back panel is optimized for future expansion.

Multi-Directional Keys
The multi-directional keys are used for talk, listen, and emulation of traditional level control function.

Enhanced Features
KP 32 CLD allows up to six auxiliary inputs, three relays, independent digital gain control for microphone sources, configurable audio routing and much more through the GPI 32 option board.

DSP Processing
Acoustic Echo Cancellation, Equalization, Mixing, Filtering, and Metering

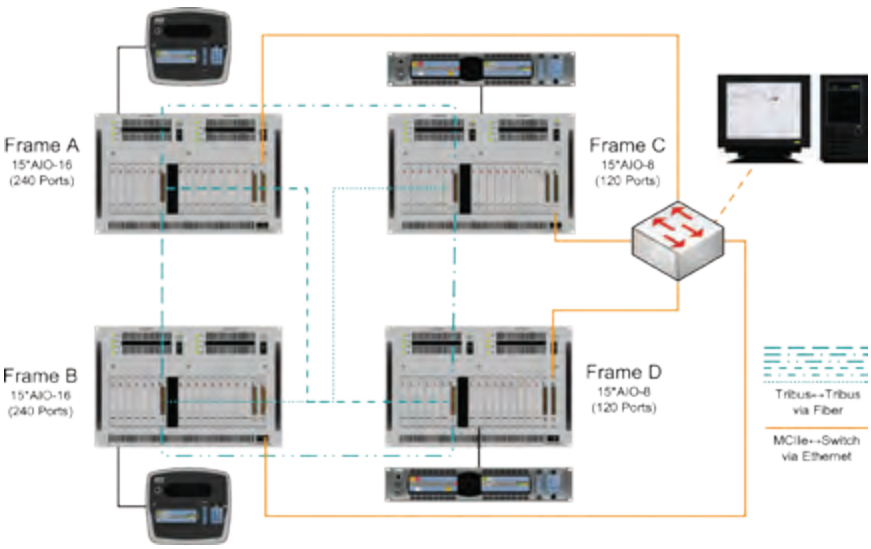
USB
For future expansion and other planned interface features.

User-Programmable Buttons
Two user-programmable buttons (UPG-1, -2) provide custom shortcuts to menu functions.

More Intuitive Key Sequences
CLD Series keypanels can be ordered with the new, more intuitive CLD key sequences and button screening, or the Classic key sequences and button screening configured for the backlit numeric keypad.

Future Expansion
Designed to allow for an expansion panel and optional connections to the matrix through current and future standard transmission formats

Multi-Frame ADAM System Connected via TBX-Tribus with CLD Series Keypanels



RTS® Digital Matrix Intercom

KP-32 Classic Keypanel Series

The RTS® KP-32 Classic family of keypanels offers an unbeatable match of features, options, and performance. Available in four- six- and eight-character models, RTS® is the only intercom manufacturer to give YOU the choice of any or ALL of these standards. KP-32 panels feature contemporary styling and extensive programmability for unprecedented function and performance. Each of the models is 2RU high by less than 4" deep behind the rack. The KP-32 Classic family of DSP keypanels provide all the functionality of the KP-12 series, and adds significant features such as DSP processing for mixing and audio control. Depending on the model selected, the keypanel may provide from 16 to 32 keys, with four- six- or eight-character alphanumeric displays on bright fluorescent or high-contrast LCD backlit displays. All displays are dimmable, providing excellent visibility. The KP-32 Classic series keypanels feature a standard mic connector and offer a variety of standard headset connector options to help ensure seamless compatibility with your system.

KP-32

32-Position Keypanel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	5" (12.7 cm)	6.4 lbs (2.9 kg)	Black or Grey

The RTS® model KP-32 Classic keypanel fits in a standard 19" rack and is two rack spaces high. It has 32 lever keys: 30 keys are for intercom talk/listen assignment; one key is for call waiting response; and one key is for headset/microphone/program selection and volume setup. The KP-32 Classic combines all of the programmable features of the KP-12 keypanel. The KP-32 Classic features digital signal processing and binaural headset operation with left/right assignment of audio signals. It also has large, super-bright, long-life fluorescent displays with adjustable brightness control, making it suitable for all types of ambient lighting. The KP-32-RC audio board with GPI option is available for KP-32 Classic series keypanels. In addition, the CSI-100 option kit for KP-32 Classic provides a bi-directional coaxial interface (Not featured).

EKP-32

32-Position Expansion Panel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	5" (12.7 cm)	5.6 lbs (2.54 kg)	Black or Grey

Expansion panel for KP-32 series rackmount keypanels. Adds 32 keys to the KP-32 intercom keypanel. One expansion panel per KP-32 can be added, giving a total of 64 keys.

LCP-32/16

16-Position Level Control Panel

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	19" (48.26 cm)	1¾" (4.5 cm)	3 lbs (1.36 kg)	Black or Grey

Level control panel providing direct "knob access" to individual cross-point level controls for operator convenience. The LCP-32/16 is available for use with KP-32, keypanels and expansion panels.

KP-32/16

16-Position Keypanel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	5" (12.7 cm)	5.9 lbs (2.68 kg)	Black or Grey

All the functionality of the KP-32 with 14 individually assignable keys for a simplified, lower cost option where 32 keys are not required.

KP-632

24-Position Keypanel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	5" (12.7 cm)	6.28 lbs (2.85 kg)	Black or Grey

The power and flexibility of the original KP-32 Classic with individually assignable keys supporting six-character alphanumerics for increased naming options.

KP-832

20-Position Keypanel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	5" (12.7 cm)	6.28 lbs (2.85 kg)	Black or Grey

The power and flexibility of the original KP-32 Classic with individually assignable keys supporting eight-character alphanumerics for the ultimate in naming options.

KP-32 RC

GPIO Option Board for KP-32 Classic

Provides connectors for two line-level audio inputs, an unswitched, balanced microphone preamplifier output, an external headset, an external speaker output, and a foot switch input. Also includes a General Purpose Input / Output (GPIO), with four opto-isolated inputs, two open-collector outputs, and two SPDT relay outputs. Inputs can activate single keys and groups of keys. Outputs can activate external devices from keypanel keys or from GPI inputs. Available factory installed in the KP-32 Classic or as an add-on kit. The KP-32 GPI is not compatible with the KP 32 CLD.

RTS® Digital Matrix Intercom

KP x12
12-Position Keypanel Series

The RTS® KP 612 and KP 412 are 12-position keypanels available in pushbutton or lever key versions. The keypanels fit in a standard 19″ rack and are one rack space high each. In addition, desktop versions are available. The KP 612 and KP 412 feature two encoders. One encoder is used for headset, microphone, auxiliary input, and matrix in volume adjustment. The other encoder knob is used for menu selection. The KP 612 and KP 412 keypanels have standard numerical keypads with four extra keys: Mic Mute, User Assignable Button, Page Up, and Page Down keys. The keypanels feature state-of-the-art audio processors and drivers. The KP 612 features a six-character display, and the KP 412 features a four-character display. RVON options are available to connect to RTS® Voice-Over Network.

KP 612 & KP 412

12-Position Rackmount Keypanel

Lever Key

Pushbutton

Height	Width	Depth	Weight	Color
1¾″ (4.45 cm)	19″ (48.26 cm)	7½″ (19.1 cm)	6.42 lbs (2.91 kg)	Black, Grey, or Nickel

The RTS® KP 612/KP 412 keypanel have 12 keys (one listen button and one talk button make up a key): 10 keys are for intercom talk and listen, two keys are for call waiting response. In addition, there are two encoders. One encoder is used for Headset, Microphone, Auxiliary Input, and Matrix In volume adjustment. The other encoder knob is used for menu selection. The KP 612/KP 412 keypanel has a standard numerical keypad with four extra keys: Mic Mute, User Assignable, Page Up, Page Down. The KP 612 has a 6-character display panel and the KP 412 has a 4-character display panel. The KP 612/KP 412 keypanels have advanced features such as digital signal processing (DSP). The units are available in pushbutton or lever key.

EKP 612 & EKP 412

12-Position Rackmount Expansion Panel

Lever Key

Pushbutton

Height	Width	Depth	Weight	Color
1¾″ (4.45 cm)	19″ (48.26 cm)	7½″ (19.1 cm)	3.7 lbs (1.68 kg)	Black, Grey, or Nickel

Expansion panel for KP x12 series rackmount keypanels. Adds 12 or 16 keys to the intercom station. Available in pushbutton and lever key versions.

EKP 612-16 & EKP 412-16

16-Position Rackmount Expansion Panel

Lever Key

Pushbutton

Height	Width	Depth	Weight	Color
1¾″ (4.45 cm)	19″ (48.26 cm)	7½″ (19.1 cm)	5.12 lbs (2.3 kg)	Black, Grey, or Nickel

Expansion panel for KP x12 series rackmount keypanels. Adds 16 keys to the intercom station. Available in pushbutton and lever key versions.

DKP 612

12-Position Desktop Keypanel

Height	Width	Depth	Weight	Color
3.1" (7.87 cm)	11.3" (28.7 cm)	7⅝" (19.4 cm)	4.17 lbs (1.89 kg)	Black, Grey, or Nickel

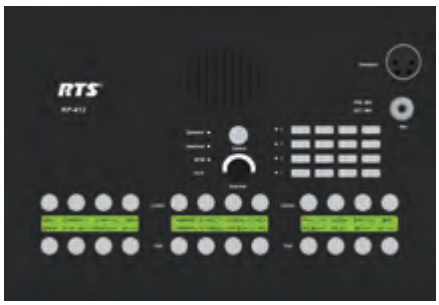
The RTS® DKP 612 is a 12-position desktop keypanel available in pushbutton or lever key versions. The DKP 612 supports six-character alpha character sets. It has two encoders; one encoder is used for headset, microphone, auxiliary input, and matrix in volume adjustment. The other encoder knob is used for menu selection. The DKP 612 keypanel has a standard numerical keypad with four extra keys: Mic Mute, User Assignable, Page Up, and Page Down. A RVON option is available to connect to RTS® Voice-Over Network.

DKP 412

12-Position Desktop Keypanel

Height	Width	Depth	Weight	Color
3.1" (7.87 cm)	11.3" (28.7 cm)	7⅝" (19.4 cm)	4.17 lbs (1.89 kg)	Black, Grey, or Nickel

The RTS® DKP 412 is a 12-position desktop keypanel available in pushbutton or lever key versions. The DKP 412 supports four-character alpha character sets. It has two encoders; one encoder is used for headset, microphone, auxiliary input, and matrix in volume adjustment. The other encoder knob is used for menu selection. A RVON option is available to connect to RTS® Voice-Over Network.



DKP 412/612HND

12-Position Handset Keypanel

Height	Width	Depth	Weight	Color
3¾" (9.53 cm)	11.3" (28.7 cm)	7⅝" (19.4 cm)	6.45 lbs (2.93 kg)	Black, Grey, or Nickel

The RTS® DKP 412HND is a 12-position desktop keypanel with a telephone-style handset. The DKP 412HND supports four-character alphas, the DKP-612HND supports six character alphas. It has two encoders; one encoder is used for headset, microphone, auxiliary input, and matrix in volume adjustment. The other encoder knob is used for menu selection. A RVON option is available to connect to RTS® Voice-Over Network.

RTS® Digital Matrix Intercom

KP-12 Modular Keypanel Series

The RTS® KP-12 modular series of keypanels represents the ultimate in compact, fully-programmable user stations. Based on a common set of internal modules (modules also available separately for custom designs) the KP-12 series have a common set of very powerful features, which make them attractive in mobile applications and in other situations where space is at a premium. Available in lever key and pushbutton versions, the basic KP-12 provides a menu driven, fully-programmable 12 key user station in a single rack unit of space. Expansion panels and level control panels round out the offerings in the rackmount form factor. Desktop and Tektronix® WFM ½ x 3RU form factor units are also available.

KP-12

12-Position Keypanel

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	19" (48.26 cm)	5½" (14 cm)	5.1 lbs (2.31 kg)	Black or Grey

One RU keypanel with twelve keys plus call-waiting window with display. Perfect for installations where space is an issue. Only 5½" deep (less connectors), allowing easy console mounting. Available with optional MCP-90 series gooseneck microphones. Available in both lever key and pushbutton versions. Available rear panel options include GPI and audio option boards.

EKP-20

20-Position Expansion Panel

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	19" (48.26 cm)	7⅛" (18.1 cm)	4.6 lbs (2.09 kg)	Black or Grey

Expansion panels for KP-12 series rackmount keypanels. Adds 20 keys to the intercom station; up to two panels can be added per station, giving a total of 32 keys in 2 RU, or 52 keys in 3 RU. Available in both lever key and pushbutton versions.

LCP-12 & LCP-20

Level Control Panels

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	19" (48.26 cm)	6.63" (16.83 cm)	3 lbs (1.36 kg)	Black or Grey

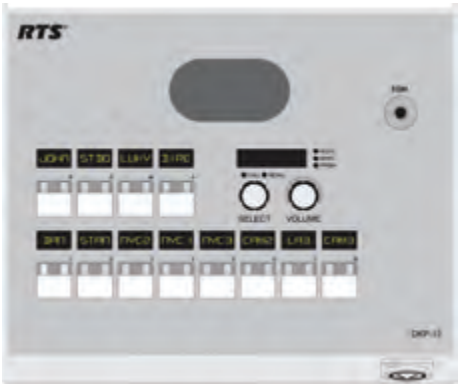
Level control panels for KP-12 series of rackmount keypanels and EKP series of expansion panels. Available with 12 or 20 level controls in a single RU. Provide individual cross-point level adjustments, with corresponding level displayed on keypanel LEDs.

DKP-8 & DKP-12

8- or 12-Position Desktop Keypanels

Height	Width	Depth	Weight	Color
3¾" (9.53 cm)	9" (22.86 cm)	7¼" (18.42 cm)	4.58 lbs (2.08 kg)	Grey

The RTS® DKP-8 and DKP-12 keypanels are similar to the model KP-12 keypanel, but are designed for desktop applications that do not require any optional external connections, such as external program source, external headset, mic output, or external control input/output. In addition, they are not intended for use with expansion panels. The DKP can have eight or twelve assignable talk/listen intercom keys with four-character alphanumeric displays. Available in both lever key and pushbutton versions.



KP-8T

Keypanel for Tektronix® WFM Mounting

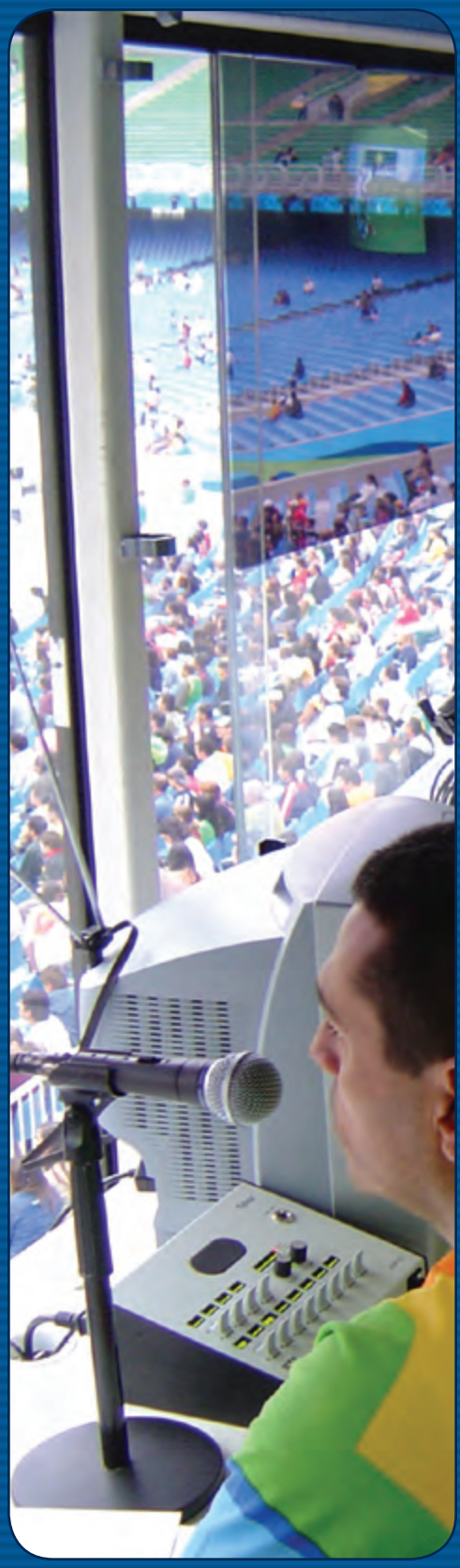
Height	Width	Depth	Weight	Color
5.22" (13.25 cm)	19" (48.26 cm)	9" (22.86 cm)	10.9 lbs (4.94 kg)	Grey

Eight-position keypanel in Tektronix® WFM form factor (½RU wide by 3RU high). Includes mounting bezel and universal 100-240 VAC 50/60Hz power supply. Same general specifications as the DKP series of panels. Perfect for Director, TD, and video consoles.

KP-12SP

KP-12 Circuit Kit

The extremely compact modular circuit boards used in the KP-12 line of products are available in kits including the circuit boards; interconnect wiring, switches, etc. for those applications where a custom enclosure or mounting is required.



RTS® Digital Matrix Intercom

Value Keypanel Series

The RTS® value keypanel series is ideal where simplicity of operation and cost are of primary importance. The keypanels share a common set of features across the entire family. The alphanumeric call waiting window is used for scrollable access to all ports, PLs, ISOs, IFBs, etc. and to check and make key assignments. Keys may be assigned to any intercom function including talk, listen, talk/listen, relay, PL, ISO, IFB, and SL. All models use the optional RTS® MCP-90 series gooseneck microphones. These keypanels are ideal for use with the RTS® Zeus™ and Zeus II™ intercom matrices, but (like all RTS® Digital Matrix Intercom keypanels) are compatible with all RTS® matrices past and present. The RTS® value series keypanel require a scribble strip for key identification.

MKP-12

12-Position Value Series Rackmount Keypanel

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	19" (48.26 cm)	8" (20.3 cm)	4.96 lbs (2.25 kg)	Black or Grey

The MKP-12 is ideal for users who want full access to the most commonly used keypanel features, and who generally communicate with twelve or less locations in the intercom system at any given time. At the same time, it features a simple, intuitive user interface, which lets the keypanel operator quickly change the key assignments if needed. The MKP-12 shares the same functionality and ease of use as the MKP-4.

MKP-4

4-Position Value Series Rackmount/Desktop Keypanel

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8⅛" (20.8 cm)	8¼" (21 cm)	2.82 lbs (1.28 kg)	Grey

The MKP-4 is the "baby brother" of the MKP-12, providing four fully programmable talk/Listen keys and headset operation, the MKP-4 keypanel is perfect for installation tight on space or budget. In the RTS® ½ rack format, the MKP-4 can be mounted alongside any of the wide variety of RTS® intercom accessories. The MKP-4 does not have an internal speaker. For external speaker options, see page 39.

BKP-4

4-Position Value Series Desktop Keypanel

Height	Width	Depth	Weight	Color
5.06" (12.86 cm)	9¼" (23.5 cm)	8" (20.32 cm)	3.2 lbs (1.45 kg)	Grey

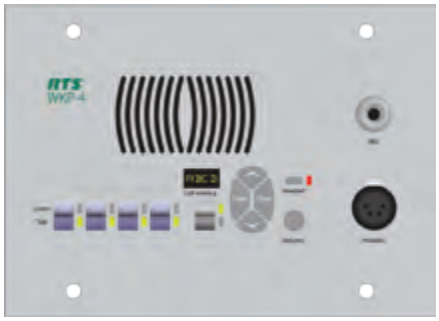
The BKP-4 is ideal for desktop use or in any application where portability is important. The unit includes a built-in speaker and is housed in an extremely rugged aluminum enclosure.

WKP-4

4-Position Value Series Wall Keypad

Height	Width	Depth	Weight	Color
6½" (16.51 cm)	9" (22.9 cm)	2½" (6.35 cm)	1.32 lbs (0.6 kg)	Grey

The WKP-4 is designed for wall-mounted applications. Perfect for use in commercial sound and industrial settings, the WKP-4 is compatible with the Telex® U-Series flush mount box. Flush mounting into consoles, custom enclosures and walls is a snap. The WKP-4 requires 15-24 VDC at 1 amp.



TKP-4

4-Position Keypanel for Tektronix® WFM Mounting

Height	Width	Depth	Weight	Color
5⅛" (13.21 cm)	8.38" (21.29 cm)	3½" (8.3 cm)	1.84 lbs (0.83 kg)	Grey

The TKP-4 is ideal for installation in small broadcast facilities, owing to its ½ x 3RU form factor, compatible with Tektronix® and other WFM/vectorscope products. Provided with a pressure fit front bezel, the unit is perfect for TD consoles, equipment racks, camera control positions, anywhere an empty "slot" is available in a WFM rack assembly.

WKP-1

1-Position Value Series Wall Keypanel

Height	Width	Depth	Weight	Color
4½" (11.43 cm)	4½" (11.43 cm)	2¾" (7 cm)	0.79 lbs (0.36 kg)	Grey

The WKP-1 keypanel is an industrial keypanel that fits in a US dual-gang electrical box. RTS® has refined the look of multi-location security with this keypanel. It offers simplified operation and integrates seamlessly with RTS® Digital Matrix Intercom systems (RTS® ADAM/Zeus™ intercom systems). The physical size and weather-resistant design provides a flexible and robust intercom system. The GPI relay switch lets the user set up door latching, unlatching and other related actions by pressing a single button from any panel in the system.

RKP-4 Wireless Keypanel

There is nothing like the RKP-4 wireless intercom system anywhere in the world. The RKP-4 four-button wireless keypanel intercom system is a one-to-one (one base station to one beltpack) full-duplex, digitally encrypted wireless intercom and will provide communication directly to RTS® Digital Matrix Intercom communication systems. The RKP-4 offers a list of standard features that are unparalleled in the industry, like frequency agility, digital audio encryption, advanced ClearScan™, battery telemetry to the base station, base station RF meter and much more. The RKP-4B, like it's sister product the BTR-1, is packed full of the latest technology like intelligent power control, DSP digital audio processing and proprietary digital audio encryption.

The RKP-4 system provides a menu driven, fully programmable four-key user station in a wireless beltpack (RKP-4) and base station (RKP-4B) combination. The alphanumeric call waiting window is used for scrollable access to all ports, PLs, ISOs, IFBs, etc. and to check and make key assignments and is configured with AZedit software. Keys may be assigned to any intercom function including talk, listen, talk/listen, relay, PL, ISO, IFB and SL. The RKP-4 system interfaces directly with ADAM, Cronus®, Zeus™ and Zeus II™.

RKP-4B

Frequency-Agile Base Station

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8¼" (20.96 cm)	9" (22.86 cm)	3.5 lbs (1.59 kg)	Black

The RKP-4B is the base station for the RKP-4 beltpack. The wireless keypanel system is a full duplex (simultaneous talk and listen) audio system that is designed to work with ADAM, Cronus®, Zeus™ and Zeus II™ Digital Matrix Intercom Systems. The RKP-4's operation is very similar to the MKP-4, BKP-4, TKP-4, and WKP-4, four button wired keypanels. The base has the ability to program the frequencies of the beltpack over-the-air. The sidetone for the base's local headset and the beltpack are adjusted at the base station.

RKP-4

Frequency-Agile Beltpack

Height	Width	Depth	Weight	Color
5.35" (13.59 cm)	3¾" (9.53 cm)	2.02" (5.13 cm)	1.2 lbs (0.55 kg)	Black

The RKP-4 is the beltpack for the RKP-4 keypanel system. The wireless system is a full duplex (simultaneous talk and listen) audio system that is designed to work with ADAM, Cronus®, Zeus™ and Zeus II™ Digital Matrix Intercom System. The RKP-4's operation is very similar to the MKP-4, TKP-4, and WKP-4, four button wired keypanels. The beltpack, via the base station, allows communications with a Digital Matrix and acts as a keypanel on the system.

RTS® Digital Matrix System Example with Wired & Wireless Keypanels

TM-2000

Trunkmaster

Height	Width	Depth	Weight	Color
7" (17.7 cm)	19" (48.26 cm)	18" (45.72 cm)	37.06 lbs (16.81 kg)	Black

The RTS® trunking system consists of a RTS® model TM-2000 and one or more RTS® model ICP-2000 interconnection panels, depending on the number of intercom systems to be trunked. A backup TM-2000 may also be added to prevent downtime in the event of a failure of the main master control unit. The basic unit comes prepared to trunk eight matrices, and can scale up to 31 matrices.

MTM-2000

Mini Trunkmaster

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	12" (30.48 cm)	26.78 lbs (12.15 kg)	Black

The RTS® trunking system consists of a RTS® model MTM-2000 and one or more RTS® model ICP-2000 interconnection panels, depending on the number of intercom systems to be trunked. A backup MTM-2000 may also be added to prevent downtime in the event of a failure of the main master control unit. The basic unit comes prepared to trunk eight matrices and can scale up to 16.

ICP-2000

Interconnect Panel

Height	Width	Depth	Weight	Color
1¾" (4.4 cm)	19" (48.26 cm)	¾" (1.91 cm)	0.89 lbs (0.4 kg)	Black

The ICP-2000 is a 1RU breakout panel that converts the SCSI type II connection provided from the TM-2000/MTM-2000 communication card(s) into 9-pin D-sub connections.

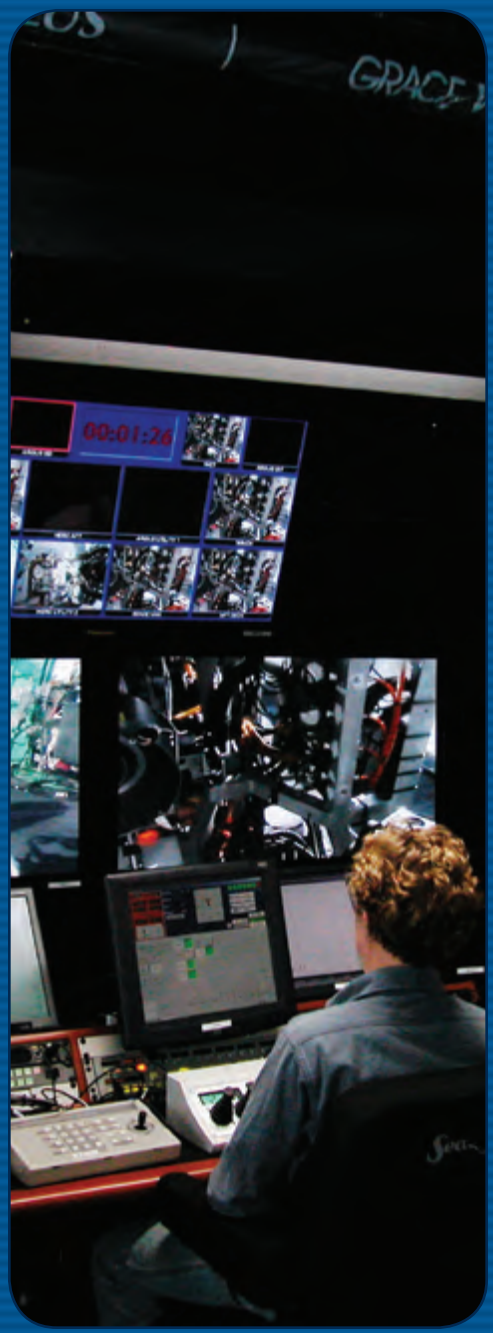
SWP-2000

Redundancy Status Display Panel

Height	Width	Depth	Weight	Color
1¾" (4.4 cm)	19" (48.26 cm)	5¾" (14.61 cm)	4.6 lbs (2.09 kg)	Black

The SWP-2000 is a 1RU switch over panel that provides common connections for TrunkEdit and Trunk Supervisor software packages, status monitoring of both TM-2000/MTM-2000 units and control of both units when used in a redundant configuration.

What is "RTS® Intelligent Trunking"? It is no less than your own private version of the long distance telephone system, allowing users of two or more (up to 31) separate matrices to communicate with one another instantaneously and seamlessly with all the same presets, scroll lists, and tallies available on local matrices. Whether the systems are located in adjacent studios or continents away from one another, intelligent trunking brings all your communications together.



A full line of products to complete your communications system, including interfaces to party-line intercoms, cable, and telephone lines, and relays. Accessories also include control panels for IFB levels and assignments, panels for adjusting system audio levels, microphones and four-wire beltpacks.

VKP & RVON Series

VoIP System Options

See Voice-over IP (Pages 12-13)

GPIO-16

General Purpose Input/Output Interface

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	19" (48.26 cm)	7" (17.78 cm)	5.48 lbs (2.49 kg)	Grey

Each GPIO-16 interface provides 16 opto-isolated inputs and 16 relay outputs. The GPI inputs can be set up to remotely controlled keypanel keys to activate intercom ports, party lines, relay outputs, etc. within the intercom system. The relay outputs are typically assigned for activation from keypanel keys. They can be used to control lighting or to key remote transmitters, paging systems, etc. Relays can be assigned to keys via the AZedit intercom configuration software. The GPIO-16 supports two communication modes: RS-485 serial and Ethernet. The UPL logic in AZedit enables custom functionality that automates or schedules certain actions to occur.

MDA-100

Mixing Distribution Amp

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	19" (48.26 cm)	8½" (21.59 cm)	7.38 lbs (3.35 kg)	Grey

The MDA-100 mixing and distribution amplifier contains an 8x1-summing amplifier (mixer) and a 1 x 8 distribution amplifier in a case that is one rack unit high. The MDA-100 is useful, for example, in camera control (CCU), where multiple camera operators have to talk and listen to one master control location. In this application, audio from each camera (up to eight) is fed to one of the summing amplifier inputs of the MDA-100.

ISDN-2005

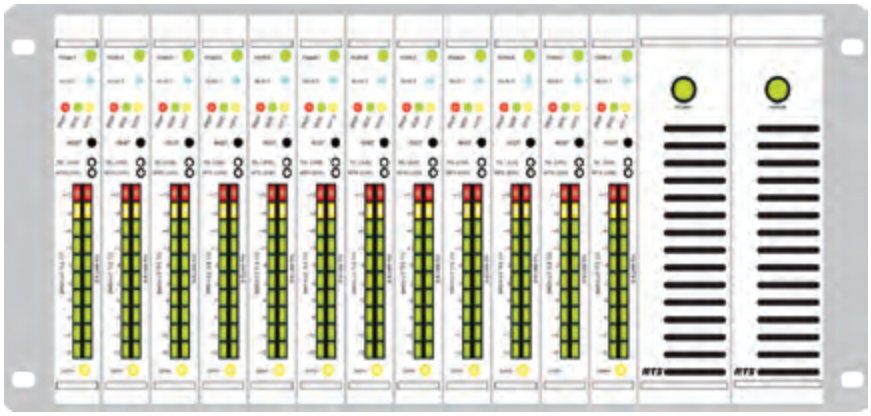
ISDN Telephone Interface

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8¼" (20.8 cm)	8½" (21.59 cm)	3 lbs (1.36 kg)	Grey

The RTS® ISDN-2005 system incorporates G.711 and G.722 audio codecs for bidirectional communications. The ISDN-2005 can be used to remote keypanels, supply trunking data and audio, and as a telephone interface.

TIF-4000

Telephone Interface



Height	Width	Depth	Weight (Empty Frame)	Color
7" (17.78 cm)	19" (48.26 cm)	13" (33.02 cm)	28.45 lbs (12.9 kg)	Grey

The TIF-4000 is a frame that can house up to twelve digital telephone interface cards (TIF-4000 front cards), with a redundant power supply designed to be compatible with ADAM, ADAM-CS, Cronus® and Zeus™ intercom systems. It provides bidirectional communication between the intercom matrix and an analog telephone line. It allows the phone to access all cross points of the matrix, as well as dynamic party lines, IFB circuits, and other forms of communications. The TIF-4000 supports worldwide telephone standards, ensuring smooth communication across the globe. The 4RU TIF-4000 frame provides a transparent link to the telephone system enabling full dial-out capability from any designated keypanel with keypad. The TIF-4000 also has full dial-in capability giving the caller a keypanel on the system via commands from the DTMF pad on their telephone.

TIF-2000A

Single-Line Digital Telephone Interface

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8½" (21.59 cm)	8¼" (20.96 cm)	2.25 lbs (1.13 kg)	Grey

The TIF-2000A is a single-line digital hybrid telephone line interface designed to be compatible with ADAM, ADAM-CS, Cronus®, and Zeus™ series intercom systems. It provides bidirectional communication between the intercom matrix and a standard DTMF capable telephone line. It allows the phone to access all cross points of the matrix, as well as dynamic party lines, IFB circuits, and other forms of communications. The TIF-2000A supports worldwide telephone standards. The 1U high by ½ wide rackmountable (via an optional MCP-1 or MCP-2 kit). TIF-2000A provides a transparent link to the telephone system enabling full dial-out capability from any designated keypanel with keypad. The TIF-2000A has full dial-in capability giving the caller a keypanel on the system via commands from the DTMF pad on their telephone.

RTS® Digital Matrix Intercom

System Peripherals

A full line of products to complete your communications system, including interfaces to party-line intercoms, cable, and telephone lines, and relays. Accessories also include control panels for IFB levels and assignments, panels for adjusting system audio levels, microphones and four-wire beltpacks.

LCP-102

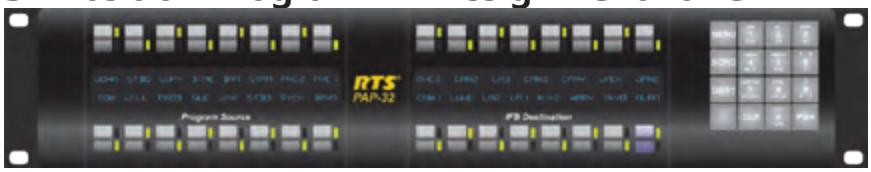
Multifunction Remote Assignment Panel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	7⅛" (18.1 cm)	8.28 lbs (3.76 kg)	Black or Grey

The LCP-102 combines three modes of operation for easy access: analog trim panel to adjust input/output gain, partyline assign to build conferences, and program assign for IFB's. You can easily switch between its three panel modes and make rapid configuration changes using the menu selector on the front panel. In each mode, you can make up to 4 pages of 16 controls and then adjust the levels for those assignments.

PAP-32

32-Position Program IFB Assignment Panel



Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	4½" (11.43 cm)	5.58 lbs (2.53 kg)	Black or Grey

The PAP-32 allows routing of program sources to IFB destinations. Up to three EPAP32 expansion panels can be added for additional assignments (Not featured).

PAM-32

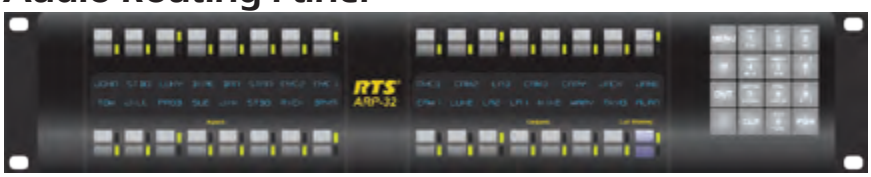
Program Assignment Monitor

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	3½" (9 cm)	3.86 lbs (1.75 kg)	Black or Grey

The PAM has 32 pushbutton keys; 30 of which are monitoring inputs; one key for scrolling alpha assignments; and one is for headset/speaker selection.

ARP-32

Audio Routing Panel

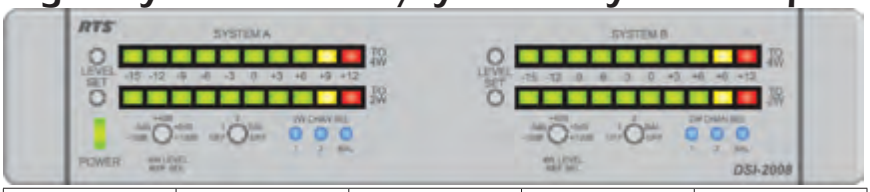


Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	4½" (11.43 cm)	5.54 lbs (2.51 kg)	Black

The ARP-32 audio routing panel is used to establish audio paths (input and output) by forcing crosspoints across your intercom system. The ARP-32 is similar to the PAP-32 except that it routes ports together, rather than IFBs. The ARP-32 only connects to a single ADAM frame that has a MCII-e controller.

DSI-2008

Digital System Interface/System-to-System Adapter



Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8⅛" (20.8 cm)	8¼" (20.96 cm)	2.9 lbs (1.32 kg)	Grey

The DSI-2008 dual digital hybrid interfaces two two-wire intercom lines to two four-wire lines, and also interfaces balanced and unbalanced two-wire lines. The DSI-2008 is ideal for systems with varying loads. (Amount of user stations often vary for different configurations.) Unlike earlier analog hybrids, the DSI-2008 features advanced digital signal processing to achieve automatic nulling of the two-wire lines. In addition, each hybrid features convenient peak-reading level meters to quickly match the levels between the lines that are being interfaced. The result is easy and accurate setup. With the DSI-2008, all need for test tones; nulling adjustments and ducking adjustments have been eliminated. In addition, there is a call light option board available for compatibility with RTS® Two-Wire Intercom and Telex® Audiocom® systems (Not featured).

SSA-324

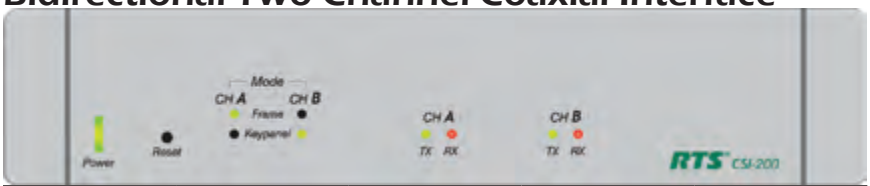
System-to-System Adapter

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8⅛" (20.8 cm)	8¼" (20.96 cm)	2.7 lbs (1.22 kg)	Grey

The model SSA-324 is a system-to-system adapter (or interface). The SSA-324 is ideal for systems with steady loads. (Amount of user stations are steady like in fixed installations.) It interconnects the voice signals between different intercom systems. In addition, it can optionally interconnect "Calls" or tally signals between systems. Each SSA-324 includes two two-wire to four-wire converters. An SSA-324 can also function as a two-wire to two-wire interface by interconnecting the two individual interfaces at the four-wire level. The SSA-324 does two voice channels when used as a dual two-wire to four-wire interface, and one voice channel when functioning as a two-wire to two-wire interface. In addition, there is a call light option board available for compatibility with RTS® Two-Wire Intercom and Telex® Audiocom® systems (Not featured).

CSI-200

Bidirectional Two-Channel Coaxial Interface

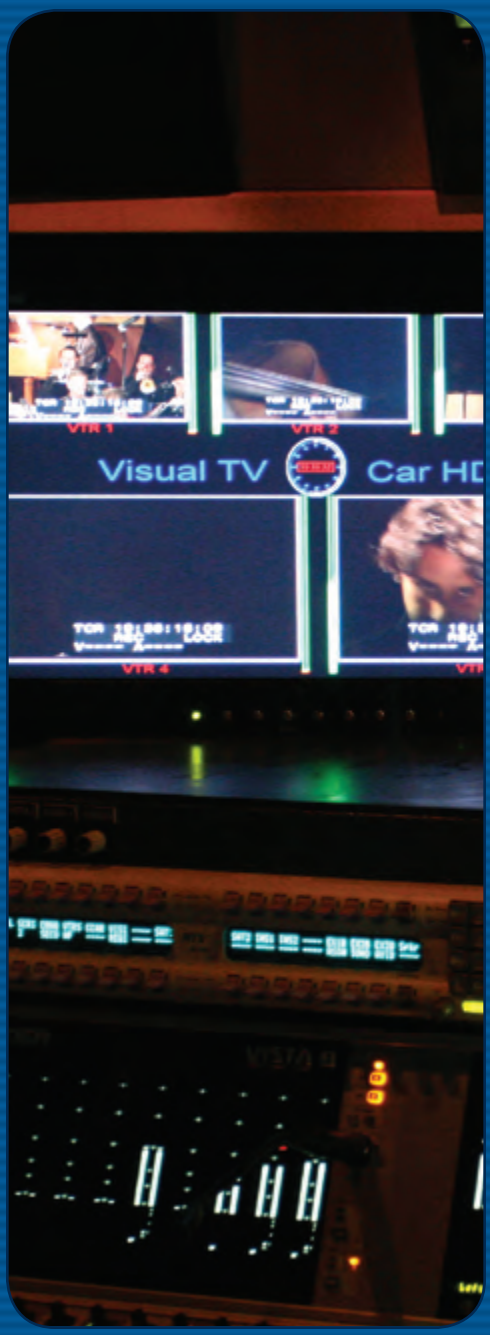


Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8⅛" (20.8 cm)	8¼" (20.96 cm)	2.2 lbs (1 kg)	Grey

The CSI-200 is a bidirectional, two-channel coaxial interface which passes digital audio and control data between RTS® keypanels and matrices. At 1RU high and ½RU width, the CSI-200 is compact allowing up to four coaxial channels in a standard rack space. Installation of the CSI-200 is quick and simplified with no user settings. Each of the two channels of the CSI-200 are independent and may operate in either on the keypanel or matrix side. LEDs provide the user with status information on the unit's connections. The CSI-100 bidirectional coaxial interface is available as an option kit for KP-32 Classic (CSI-100 not featured).

IFB System Peripherals

IFB, or Interrupt Fold (sometimes Feed) Back is predominately a television broadcast term used to describe the process of cueing talent while they are on air. RTS® IFB equipment is designed with a modular approach that meets the needs of not only large television networks, but also can be configured for any one-way communications need. With multiple program audio sources, individual or simultaneous interrupts and rugged durability, the RTS® series of IFB and ISO products is perfect for any talent cueing need.



4010
Central IFB Electronics Station

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	19" (48.26 cm)	15" (38.1 cm)	10.74 lbs (4.87 kg)	Grey

Central IFB electronics station. Contains all necessary control functions and electronics including line power, to provide the active link between the 4001, 4002 and 4003 control stations and the 4030 and IFB-325 user stations.

IFB-828
8-Channel IFB Panel with Volume Controls

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	19" (48.26 cm)	7" (17.78 cm)	8.84 lbs (4.01 kg)	Grey

The IFB-828 interfaces up to eight RTS® IFB-325 or 4030 IFB beltpacks to any RTS® Digital Matrix Intercom system, and it provides power to the beltpacks. The IFB-828 may also be used as a simple program interface to feed two separate program sources to each of eight or 4030 beltpacks(16 program sources to eight beltpacks total).

4030
2-CH IFB Beltpack

IFB-325
1-CH IFB Beltpack

Height	Width	Depth	Weight	Color
1½" (3.8 cm)	3¾" (9.53 cm)	4030 1.8" (4.57 cm) IFB-325 1" (2.54 cm)	4030 0.67 lbs (0.3 kg) IFB-325 1 lb (0.45 kg)	Grey

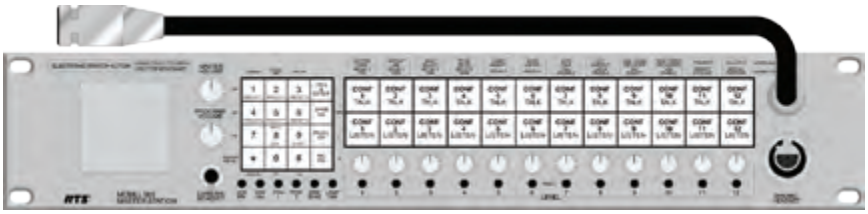
The 4030 and IFB-325 are listen only IFB earset stations with two and one channel, respectively. The 4030 contains electronics to provide a stereo audio signal to the user. The IFB-325 provides a mono (either interrupt or non/interrupt selected at 4010) audio signal to the user. The 4030 and IFB-325 feature volume controls in extruded aluminum cases. For earset options see page 43.

4001, 4002, 4003
IFB Control Stations

IFB Control stations with 4, 8, and 12 channels, respectively. Controls separate talent feeds per channel plus one stage announce send. Features two distinct audio sends per IFB channel for interrupt/non-interrupt or multiple program feeds. The units have illuminated switches, programmable priority levels and gooseneck mic connector and is shipped with a wall power supply. Optional rack kit is also available. Requires one 4010 Central IFB. 4001 and 4002 not displayed.

803

12-Channel Programmable Master Station



Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	10" (25.4 cm)	8.1 lbs (3.67 kg)	Grey

The RTS® model 803 master intercom station is the hub for the two-wire intercom system. Call signaling is standard on all twelve intercom channels. For applications requiring four-wire operation, IFB panel emulation or ISO panel emulation the circuitry is already there; you simply install an option cable to the back panel, set one or two internal DIP switches (IFB and ISO emulate only) and you're ready to go. For all other applications, everything you need is "in the box".

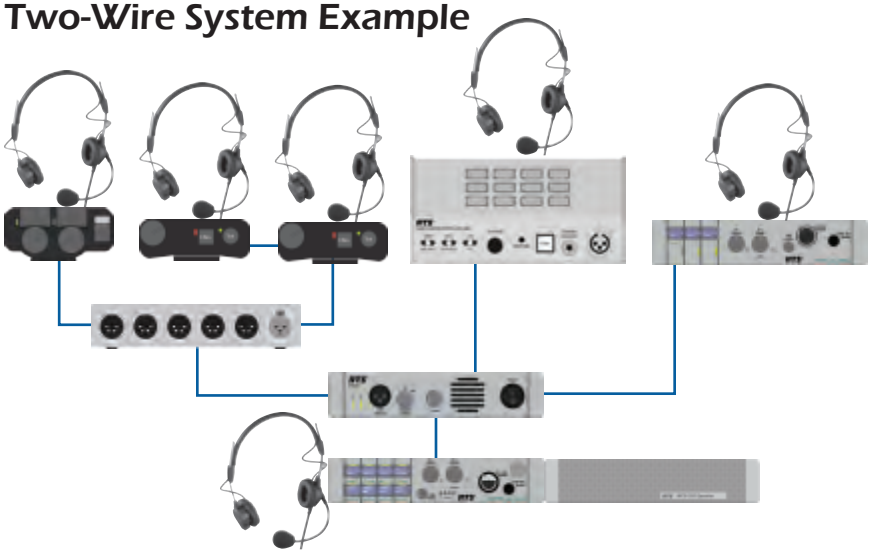
MCE 325

2- or 4-CH User-Programmable Master Station

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8.2" (20.83 cm)	8" (20.32 cm)	4.5 lbs (2.04 kg)	Grey
Power Requirements: 100 VAC or 230 VAC Version available, 50/60 Hz, 20VA				

The MCE 325 is a four-channel, programmable intercom station. It may be used as a headset station or, with the addition of the MCS-325 modular speaker, as a speaker station. It may be mounted in a console or equipment rack via optional mounting kits (Page 40). The MCE 325 can be used with either two-wire or four-wire intercom lines, or a combination of both. The MCE 325 can be interfaced to a variety of external devices including external program sources, two-way radios, paging systems, and satellite circuits. The MCE 325 can be ordered for 4- or 5-pin operation.

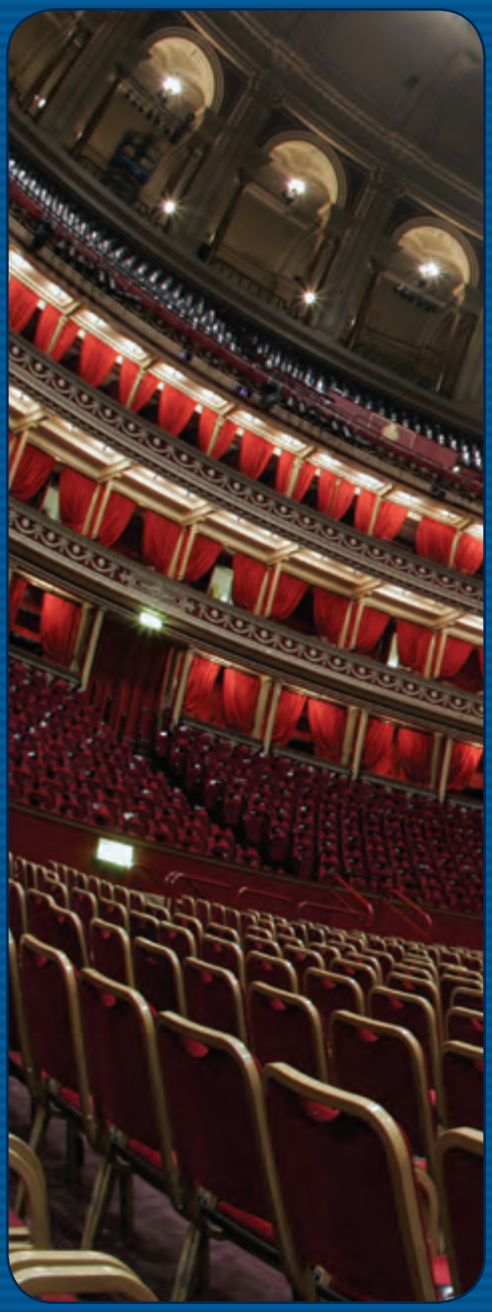
Two-Wire System Example



RTS® Two-Wire Intercom series 800 master stations have been the industry standard of advanced professional partyline communication systems for over 25 years. With their flexible configurations, ease of use and legendary reliability, they are the elite core communications control tools. RTS® Two-Wire Intercom master stations are installed in major broadcast and industrial application venues worldwide. With unparalleled industry acceptance, there is no other product that offers this level of comprehensive communications control.

User Stations

RTS® Two-Wire Intercom user stations employ a unique modular design that enables a few station types to be configured into a multitude of communications solutions. Rugged and dependable RTS® Two-Wire Intercom user stations form the widest variety of stationary communications stations in the industry. RTS® Two-Wire Intercom user stations are the perfect choice for a wide range of applications regardless of what physical profile is required. RTS is the only two-wire system that allows two communication channels to be connected on a single standard microphone cable.



MRT 327
User Station

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8.2" (20.83 cm)	9" (22.86 cm)	2.75 lbs (1.25 kg)	Grey

Power Consumption	Quiescent	Operating 25Ω phones	Operating 25Ω phones +call light	Operating 8Ω speaker	Operating 8Ω speaker +call light
	45 mA ±10%	75 mA ±10%	90 mA ±10%	240 mA ±10%	300 mA ±10%

The model MRT 327 is a two-channel intercom station for use in RTS® Two-Wire Intercom systems. It may be used as a headset station or as a speaker station (with an optional MCS-325 modular speaker). The MRT 327 may be installed in optional console or rackmount configurations. The MRT-325 can be ordered for 4- or 5-pin operation.

RM 325
User Station

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8.2" (20.83 cm)	8" (20.32 cm)	2.75 lbs (1.25 kg)	Grey
Power Consumption: 45-75 mA				

The RM 325 is two-channel binaural headset station. Features Stereo (split feed) operation, microphone limiter circuit, two powerful headphone amps and simplified operational controls including individual volume adjusts. Packaged in ½-rack by 1RU metal housing for added durability.

SPK 300L
Portable Desktop Speaker User Station

Height	Width	Depth	Weight	Color
4" (10.16 cm)	8" (20.32 cm)	8" (20.32 cm)	3.5 lbs (1.59 kg)	Grey
Power Consumption	Quiescent	Operating 25Ω Phones	Operating 25Ω Phones + Call Light	Operating 8Ω Speaker
	10 to 40 mA	50 mA	70 mA	100 mA

The SPK 300L is a desktop station with built-in speaker. It can be used as a "public" listen box via built in speaker or privately through the headset connection. Features channel select switch, call light, speaker on/off switch and dual-purpose portable desktop volume control. Packaged in a rugged all metal housing perfect for table-top operation.

CM 300L
Console-Mount User Station

Height	Width	Depth	Weight	Color
2¾" (6.99 cm)	6¼" (15.88 cm)	6.4" (16.26 cm)	1.2 lbs (0.54 kg)	Grey

Power Consumption	Quiescent	Operating 25Ω Phones	Operating 25Ω phones + Call Light
	23 mA ±10%	37 mA ± 10%	60 mA ± 10%

Two-channel select console mount user station. Features microphone limiter circuit, separate dynamic and carbon microphone input and silent channel-select switching. Solid metal front and open back for console mounting. The CM 300L uses the MCP-3 mounting kit (Page 40).

WM 300L
Wallmount User Station

Height	Width	Depth	Weight	Color
4½" (11.43 cm)	4½" (11.43 cm)	1.81" (4.6 cm)	0.56 lbs (0.25kg)	Grey

Power Consumption	Quiescent	Operating 25Ω Phones	Operating 25Ω phones + Call Light
	10 to 40 mA	50 mA	75 mA

Two-channel select wall mount headset station. Features channel select switch, call light and headset volume control. Fits in standard 2-gang outlet box.

WMS 300L
Dual-Channel Wallmount User Station with Speaker

Height	Width	Depth	Weight	Color
4½" (11.43 cm)	8" (20.32cm)	1.75" (4.45 cm)	1 lbs (0.45 kg)	Grey

Power Consumption	Quiescent	Operating 25Ω Phones	Operating 25Ω Phones + Call Light	Operating 8Ω Speaker
	10 to 40 mA	50 mA	70 mA	100 mA

2-channel select wall mount speaker user station. Can be used as a "public" listen box via built in speaker or privately through the headset connection. Features channel select switch, call light, speaker on/off switch and dual purpose volume control. Fits in standard US 4-gang outlet box.

Beltpacks

Utilizing the latest in space age materials, RTS® Two-Wire Intercom beltpacks are mechanically engineered to be brutally rugged and dependable. Unique audio circuitry is perfect for either high- or low-noise environments while maintaining maximum voice intelligibility.

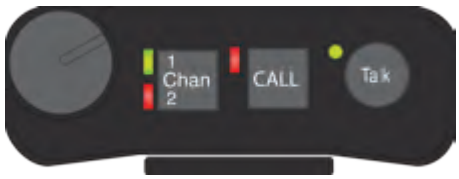
BP-325
Dual-Channel Binaural Programmable Beltpack

Height	Width	Depth	Weight	Color
5" (12.7 cm)	3 ¾" (9.53 cm)	2.05" (5.21 cm)	0.5 lbs (0.23 kg)	Black or Grey

Power Consumption	Average Talk	Average Talk + Call Light
	65 mA	85 mA

The BP-325 is a portable beltpack for use with RTS® Two-Wire intercom systems. The BP-325 is a binaural (stereo) programmable two-channel beltpack with program-input capability. The BP-325 is for use with a dynamic microphone only.

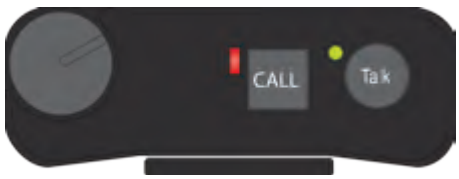
BP-351
Dual-Channel Portable Metal Beltpack



Height	Width	Depth	Weight	Color
5" (12.7 cm)	3 ½" (8.89cm)	1.8" (4.57 cm)	0.75 lbs (0.34 kg)	Black or Grey
Power Consumption: 45 to 70 mA				

The BP-351 is a portable beltpack for use with RTS® Two-Wire intercom systems. The BP-351 is a microprocessor controlled two-channel select intercom beltpack. The BP-351 has connections for headset/earset microphones (dynamic or electret). The beltpack has an autosensing function that automatically detects the headset mic and powers it if the mic is electret.

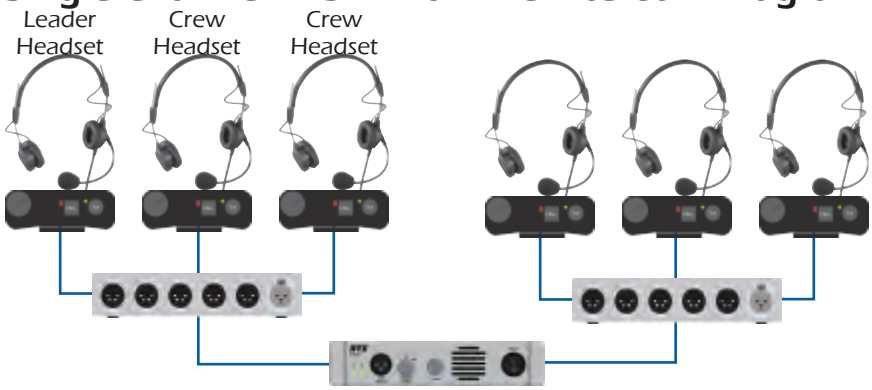
BP-319
Single-Channel Portable Metal Beltpack



Height	Width	Depth	Weight	Color
5" (12.7 cm)	3 ½" (8.89cm)	1.8" (4.57 cm)	0.75 lbs (0.34 kg)	Black or Grey
Power Consumption: 45 to 70 mA				

The BP-319 is a portable beltpack for use with RTS® Two-Wire intercom systems. The BP-319 is a microprocessor controlled one-channel intercom beltpack. The BP-319 has connections for headset/earset microphones (dynamic or electret). The beltpack has an autosensing function that automatically detects the headset mic and powers it if the mic is electret.

Single-Channel RTS® Two-Wire Intercom Diagram



PS-20

Power Supply

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8.19" (20.8 cm)	8.56" (21.75 cm)	5 lbs (2.27 kg)	Grey

Output	Input
28 VDC to 32 VDC, 1.8 Amp per CH	90 to 264 VAC, 50 to 60 Hz

The RTS® PS-20 is the new RTS® Two-Wire Intercom power supply. The PS-20 features two- and four-channel operation, RTS® monitoring, two-channel program input, audio linking, and three-mode operation: RTS® 2-channel, RTS® 4-channel and Clear-Com® mode. It also has double the power output of the PS-31 per channel, which will increase the number of user stations and beltpacks which can be connected substantially.

The PS-20 features two channels of communication where both channels are "wet", meaning there is power on each channel (RTS® two-channel mode). In RTS® four-channel mode, the audio signals and DC exist on the same wire. The PS-20 can also be switched into Clear-Com® mode. The PS-20 has a 3-pin XLR (male) connector on the front of the system, where a RTS® user station can connect and monitor activity on either or both channels. A single PS-20 power supply has 1.8 ampere per channel which means the user can power up more stations. If additional user stations or beltpacks are needed, two PS-20's can be joined together to double the power capability. A pair of standard stereo plug connectors are available on the back of the power supply to connect two PS-20's through audio linking as well. The PGM IN (3-pin XLR female Program Input) connector can be used to send audio to both CH 1 and/or CH 2.

PS-15

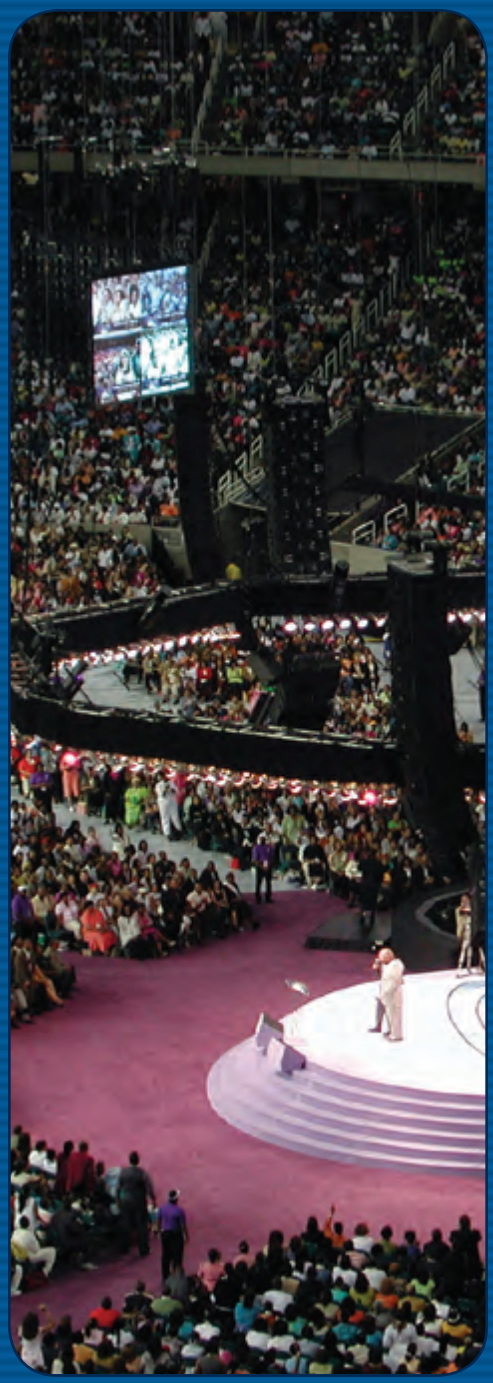
System Power Supply

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	8.2" (20.83 cm)	8.33" (21.16 cm)	4.68 lbs (2.12 kg)	Grey

Output	Input
1 amp at 32 VDC, 1 Amp per CH1	100 VAC or 230 VAC Version available, 50/60 Hz,

System power supply. Provides two independent output channels, one powered at 32VDC up to 1 amp and one "dry" and program audio. Features unique circuitry that protect outputs from short circuit conditions with automatic and instantaneous recovery when short is removed. Powers an average of 15 stations. Packaged in ½ rack by 1 RU all metal housing for added durability.

Power supplies are the heart of partyline intercom systems. They supply operating voltage to beltpacks and many user stations. Unique short circuit reset circuitry design and unparalleled mechanical engineering ensures reliable trouble-free operation for years to come. With all of the things you have to worry about, your power supplies should not be one of them.



Accessories

RTS® Two-Wire Intercom source assignment panel accessories are a key element in large, high-end RTS® Two-Wire Intercom partyline systems. With the ability to turn a standard two-bus communications system into a 12 or more bus configuration, SAP's are vital to system expansion. Increasing the number of usable communications busses allows the system to be better tailored to individual user needs.

SAP-1626

Source Assignment Panel

Height	Width	Depth	Weight	Color
3½" (8.89 cm)	19" (48.26 cm)	9.8" (24.89 cm)	10 lbs (4.54 kg)	Grey

2 RU source assignment panel. Assigns any one of 12 intercom channels and/or three program audio channels to 26 separate 2-channel user stations via convenient matrix thumb wheel switches. I/O provided via two 50 pin connectors. Normally used in conjunction with a BOP-220

SAP-612

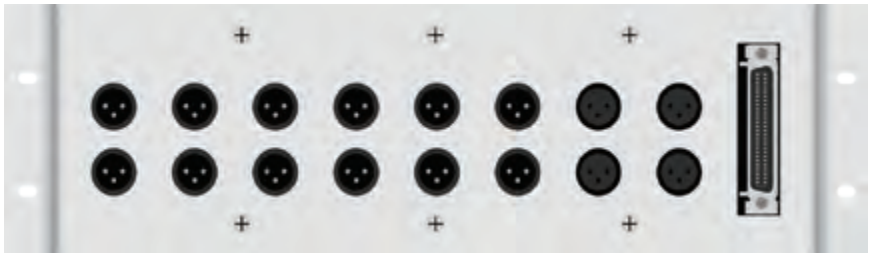
Source Assignment Panel

Height	Width	Depth	Weight	Color
1¾" (4.45 cm)	19" (48.26 cm)	8" (20.32 cm)	4.52 lbs (2.05 kg)	Grey

Source assignment panel (1RU). Transforms a basic two bus intercom system into a 6 bus system via convenient matrix slide switches. Provides six input channels and 12 two-channel TW user station strings. I/O provided via two ¼", three 3 pin XLR female and twelve 3-pin XLR male connectors. Contains XLR jacks for RTS® power supply.

4012

System Interconnect, 50-pin to 3-pin Connector Translation Assembly

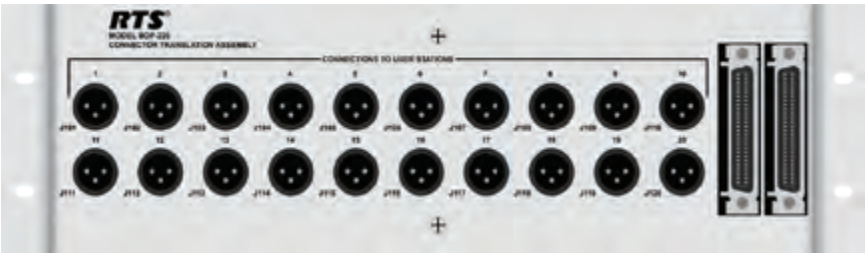


Height	Width	Depth	Weight	Color
5¼" (3.34cm)	19" (48.26cm)	5.06" (12.86 cm)	3.72 lbs (1.69 kg)	Silver

The model 4012 is a passive connector translation device used specifically for system applications designed around the 803 master station.

The model 4012 acts as a breakout panel to facilitate easy connections to the intercom system. The 4012 is a hardwire programmable allowing a variety of system configurations. Both the dedicated-line and conference-line connections can be arranged to suit individual system requirements.

BOP-220
Breakout Panel



Height	Width	Depth	Weight	Color
5¼" (13.34 cm)	19" (48.26 cm)	5" (12.7 cm)	2.43 lbs (1.1 kg)	Silver

19", 3 RU break out panel, I/O connector transition assembly. Provides a convenient interface between a SAP-1626 (25 pair 50-pin) and up to 20 user stations or strings of stations (3 pin XLR male).

MCS-325
5-Watt Passive Modular Loudspeaker

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8½" (21.59 cm)	8¼" (21 cm)	2.52 lbs (1.14 kg)	Grey
Power Rating: 5W RMS continuous				

The MCS-325 is a modular speaker. It can be combined with MCE 325 and MRT 327 to provide speaker station operation. Packaged in ½ rack by 1RU metal housing for added durability.

LMS-325
5-Watt Modular Amplified Loudspeaker

Height	Width	Depth	Weight	Color
1¾" (4.5 cm)	8.19" (20.8 cm)	8" (20.32 cm)	2.76 lbs (1.25 kg)	Grey
Power Requirements: 15-15 VDC (RTS® Wallpack is available)				

The LMS-325 is a (active) line monitor speaker station. Part of RTS®'s unique modular packaging system. Features a full range 5 Watt speaker and power amp, dual channel inputs from Two-Wire or separate program inputs and volume control. Packaged in ½ rack by 1RU metal housing for added durability and magnetically shielded for use near video monitors.

Accessories

A full line of products to complete your communications system, including interfaces to party-line intercoms, cable, and telephone lines, and relays. Accessories also include control panels for IFB levels and assignments, panels for adjusting system audio levels, microphones and four-wire beltpacks.

MCP-90

Electret Gooseneck Microphone

Maximum Head Diameter		0.55″ (1.4 cm)	
Gooseneck Diameter		¼″ (0.64 cm)	
MCP-90-0	**MCP-90-8**	**MCP-90-12**	**MCP-90-18**
1″ (2.54 cm)	8″ (20.32 cm)	12″ (30.48 cm)	18″ (45.72 cm)

The MCP-90 series microphones are phantom-powered "back-electret" miniature condenser gooseneck microphones. The back-electret feature provides greater sensitivity, wider frequency response, and superior immunity from handling noise than a diaphragm-electret microphone. The removable windscreen provides pop filtering; response shaping and overload protection to further enhance the acoustic performance of the microphone. The MCP-90 microphones are mechanically designed for quick, easy mounting to RTS® keypanels. The frequency response is tailored for full-range sound reproduction with natural sound pick-up optimized for close-up use. The microphones are fitted with a threaded TRS male connector that is compatible with RTS® standard threaded TRS female connectors.

MCP-1, MCP-2, MCP-3, MCP-4, & MCP-8

Rackmount Kits

MCP-1 **MCP-2** **MCP-3** **MCP-4** **MCP-8**

Mounting brackets are the key to the RTS® modular user station design concept. By choosing the appropriate mounting kit individual user stations can be combined in numerous configurations to meet virtually any communications need. All mounting kits are engineered and built for rugged durability. All-metal construction and attention to mechanical design details make all of the RTS® mounting kits a worry-free choice for years to come.

CIA-1000

Indicator Assembly

Top-Mount	Height	Width	Depth	Weight	Color
	2″ (5.08 cm)	8.19″ (20.8 cm)	5¼″ (13.34 cm)	0.94 lbs (0.43 kg)	Grey
Front-Mount	**Height**	**Width**	**Depth**	**Weight**	**Color**
	1.75″ (4.45 cm)	8.19″ (20.8 cm)	5.56″ (14.13 cm)	0.94 lbs (0.43 kg)	Grey

Call light indicator. Features top mounted (standard) or front mounted (optional) red flashing call light. Offers channel select, line and loop connectors, and spring clamp terminals for relay closure output in a ½ rack wide by 1 high package. Ideal for high noise applications or when users cannot monitor headsets full time such as theater or touring sound.

Intrinsically-Safe Security Intercom System

RTS® Two-Wire Intercom

The RTS® intrinsically-safe beltpack, HCU-317, and its additional required standard non–intrinsically safe system components is a communication system that can be connected to all RTS® partyline stations which have been the industry standard of advanced professional partyline communication systems for over 25 years. The HCU-317 beltpack is designed to be intrinsically-safe, which means that the beltpack can be used for communicating in areas that are at high risk for explosion such as aviation fuel tank cleaning areas, oil platforms, industrial or chemical areas.

HCU-317

Single-Channel Intrinsically Safe Beltpack

Height	Width	Depth	Weight	Color
2.56" (6.5 cm)	2.99" (7.59 cm)	1.89" (4.8 cm)	0.82 lbs (0.37 kg)	Grey

The HCU-317 Beltpack is designed to be Intrinsically safe, which means that the beltpack can be used for communicating in areas that are at high risk for explosion, such as aviation fuel tank cleaning, oil platforms or chemical plants. All beltpack users will be able to communicate together in full duplex operation mode. (Pictured above.)

WB-5

5-Port Distribution Panel
Allows to Connect Five HCU-317's

Height	Width	Depth	Weight	Color
9.45" (24 cm)	19" (48.26 cm)	3.15" (8 cm)	7.96 lbs (3.61 kg)	Grey

The WB-5 wall box outputs can be connected to five individual HCU-317 beltpacks. All the beltpacks will be able to communicate together in full duplex operation mode. The WB-5 itself is connected to the HCU- 4012 breakout distribution panel for system power. (Pictured above.)

HCU-4012

System Interconnect Between WB-5 & Power Supply

Height	Width	Depth	Weight	Color
5.31" (13.49 cm)	19" (48.26 cm)	5.06" (12.86 cm)	2.86 lbs (1.3 kg)	Grey

The 19" (3RU) HCU-4012 Breakout distribution panel is designed to take the system power from the power supply and distribute it to the WB-5 Wall box. It also offers the option to connect all RTS® party line stations to the Intrinsic Safe Intercom System. (Pictured above.)

CA-NG50

50' Intrinsic Cable for HCU-317

Length	Color
50' (15.24 m)	Black

The CA-NG50 cable is equipped with special intrinsic safe connectors. Each 50' intrinsic cable is used to connect one HCU-317 beltpack to the WB-5 Wall box. (Pictured above.)

Intercom Headsets

RTS® offers a wide variety of headset styles to choose from including lightweight and full-cushion headsets in either single or dual-sided versions. We also have hearing protection headsets that offer noise reduction of up to 24dB and an earset selection that can accommodate all applications. Most of our headsets feature our new flexible boom arms, comfortable cushions, and are terminated with an A4M connector for compatibility with RTS® intercom systems.

PH-44R & PH-88R

Lightweight Headsets with Flexible Dynamic Boom Mics

The PH-44R headset is a dual-muff lightweight headset for the ultimate in day-long comfort. It offers a dynamic noise-canceling microphone with a semi-rigid, fully adjustable boom for precise positioning. The high-quality wide band dynamic earphones are covered in moleskin for better fit, isolation and frequency response. The PH-44R is terminated with an A4M, and the PH-44R5 is terminated with an A5M connector for compatibility with RTS® intercom systems.

The PH-88R is a single-muff super lightweight headset for the ultimate in day-long comfort. It offers a dynamic noise-canceling microphone with a semi-rigid, fully adjustable boom for precise positioning. The high-quality wide band dynamic earphones are covered in moleskin for better fit, isolation and frequency response. The PH-88R is terminated with an A4M and the PH-88R5 is terminated with an A5M connector for compatibility with RTS® intercom systems.

PH-44R

PH-88R

PH-1R & PH-2R

Full-Cushion Medium-Weight Headsets with Flexible Dynamic Boom Mics

The PH-1R & PH-2R series of medium-weight intercom headsets is considered the industry-standard by many users in all different applications. With a weight of only 12 oz., these headsets offer the ultimate in daylong comfort. The PH-1R & PH-2R are terminated with A4M, and the PH-1R5 & PH-2R5 are terminated with A5M connectors for compatibility with RTS® intercom systems.

RTS® offers a wide variety of headset styles to choose from including lightweight and full cushion headsets in either single or dual sided versions. Most of our headsets feature our new flexible boom arms, comfortable cushions, and are terminated with an A4M or A5M connector for compatibility with RTS® intercom systems.

PH-1R

PH-2R

HR-1R & HR-2R

Medium-Weight Headsets with Flexible Dynamic Boom Mics

The HR-1R and HR-2R are either single- or dual-muff, medium-weight passive noise reduction headsets with dynamic noise-canceling microphones. The headset has a noise reduction rating of 21 dB; suitable for use in a moderately noisy environment. The ergonomic moleskin-covered headband design distributes pressure evenly with no pressure points, ensuring hours of comfortable wear. An added advantage of this headset design is that it folds into a compact form for ease of storage. The HR-1R & HR-2R are terminated with an A4M, and the HR-1R5 and HR-2R5 are terminated with an A5M connector for compatibility with RTS® intercom systems.

HR-1R

HR-2R

PH-100R & PH-200R

Premium Medium-Weight Headsets with Flexible Dynamic Boom Mics

The PH-100R and PH-200R are premium medium-weight noise reduction headsets with dynamic noise-cancelling microphones. Similar to the HR-1 and HR-2 headsets, the PH-100R and PH-200R feature a unique, comfortable headband design that distributes pressure evenly. These headsets come with high-quality moleskin cushions and offer a 21dB noise reduction rating. The PH-100R and PH-200R fold into an extremely compact shape. The PH-100R & PH-200R are terminated with an A4M, and the PH-100R5 & PH-200R5 are terminated with an A5M connector for compatibility with RTS® intercom systems.

RTS® offers a wide variety of headset styles to choose from including lightweight and full cushion headsets in either single or dual sided versions. We also have hearing protection headsets that offer noise reduction of up to 24 dB and an earset selection that can accommodate all applications. Most of our headsets feature our new flexible boom arms, comfortable cushions and are terminated with an A4M or A5M connector for compatibility with RTS® intercom systems.

PH-100R

PH-200R

PH-10R

Headset with 24dB NRR & Flexible Dynamic Boom Mic

The PH-10R is the ultimate in passive noise reduction. This heavy-duty headset offers snug-fitting dual-sided, monaural headphones with a dynamic, noise-canceling microphone for use in high noise environments. The PH-10R offers an Environmental Protection Agency (EPA) rated noise reduction rating (NRR) of 24dB. Perfect for industrial and concert applications. The PH-10R is terminated with an A4M and the PH-10R5 is terminated with an A5M connector for compatibility with RTS® intercom systems.

PH-10R

Earsets

Discrete Listen-Only Earbuds

The popular RTS® earsets are precisely designed for inconspicuous listening while on camera. Used by nearly all major television networks and stations, we have unsurpassed quality. The extremely efficient miniature driver element requires only nominal operating power and enables the announcer to hear program cues while working with a live microphone. The units are also suitable for many other applications such as live theater script prompting.

All earset components are available for individual sale, with which you can build your own earset. For details please visit:
www.intercomheadsets.com/earsets

CES-1

CES-2

RTS®

For information on any of the products featured in this catalog
Please visit the RTS® Digital Matrix Intercom website at: www.rtsintercoms.com
In addition, please visit the RTS® Two-Wire Intercom website at: www.rtstw.com

Or contact us directly:

Americas

Bosch Communications Systems (Telex Communications, Inc.)
12000 Portland Avenue South
Burnsville, Minnesota 55337
United States

United States
Phone: +1-877-863-4169 | Fax: +1-800-323-0498

Canada
Phone: +1-866-505-5551 | Fax: +1-866-336-8467

Latin America
Phone: +1-952-887-5532 | Fax: +1-952-736-4212

Europe, Africa, & the Middle East

Germany
Bosch Communications Systems (EVI Audio GmbH)
Hirschberger Ring 45,
D-94315, Straubing, Germany
Phone: +49 9421-706 0 | Fax: +49 9421-706 265

United Kingdom
Bosch Communications Systems (Telex Communications UK Ltd)
Unit 26 Fiddlebridge Industrial Center,
Lemsford Road Hatfield, Hertfordshire AL10 0DE, UK
Phone: +44 1707 280 960 | Fax: +44 1707 265 083

United Arab Emirates
Bosch Communications Systems (Telex Communications, Inc.)
Jebel Ali Free Zone, LB21 016
P.O. Box 79129 Dubai, U.A.E.
Phone: +971 4 881 3850 | Fax: +971 4 881 3851

Asia & the Pacific Rim

Japan
Bosch Communications Systems (EVI Audio Japan Ltd.)
5-3-8 Funabashi, Setagaya-Ku,
Tokyo, Japan 156-0055
Phone: +81 3-5316-5020 | Fax: +81 3-5316-5030

China
Bosch Communications Systems (EVI Audio Ltd.)
Room 3105-3109, Tower 1, Office Building, 218 Tian Mu Xi Rd.,
Shanghai, China. Post Code: 200070
Phone: +86 (21) 63172155 | Fax: +86 (21) 63173025

Hong Kong
Bosch Communications Systems (EVI Audio Ltd.)
Unit 5,1/F, Topsail Plaza, 11 On Sum Street, Shek Mun,
Shatin, N.T., Hong Kong.
Phone: +852 2351 3628 | Direct Line:+852 3103 8321 | Fax:+852 2351 3329

Singapore
Bosch Communications Systems (Telex Communications (SEA) Pte Ltd)
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450 | Direct Line: +65 6319 0621 | Fax: +65 6319 0620

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